DIVISION OF PUBLIC WATER SUPPLIES

MINERAL ANALYSIS

Public Water Supply				UNION			
Sampling Point		1.5	County	MCHENRY	Regio	n NE	
7ell # 3 Well	Depth 9	FT Year I	orilled 19	4.30 time Coll. 4:30 t	ate Co	llected M	AY 17.19
sample: Raw X F	inished_	Time W	Well Pump	Operated hrs. P	umpage	Rate 4.	CPM GPM
Collected By: Lin	noth.	1) IF	orce.	Telephone No.	96	13-20	146
PARAMETER	HYMBOI	mg/l	me/l	PARAMETER	SYMBOI	mg/1	me/l
Iron	Fe	2.1		Silica	SiO2	10	
langanese	Min	0.09		Fluoride	F	0.2	
Calcium	Ca	86.		Chloride	Cl	42.	
lagnesium	Mg	4-1.		Nitrate	NO3	0.6	
umonium	11Hf	0.44		Sulfate	504	74.	
Sodium	lla	34.		Alkalinitym 305	CACO3	340	
Potassium	K	2,1		Hardness	CACOR		
Residue	Evap	412		Carbon Dioxide	CO2		
Dissolved Solids by		500		Zinc	Zn	0.0	
		30,			CHL	0.0	
<u>luminum</u> Ursenic	Al	0.00		Mcthane	_	020	
	As	0.00		Phosphate	POl	0.39	
Barium	Ba	0.1		Phenol	-		
oron	В	0.00		011	-		
admium	Cd			Chromium (Tri)	Cr		
Chromium (Total)	Cr	0.00		Chromium (Hex)	Cr		
Copper	Cu	0.80		Organic Carbon			
Lead	Pb	0.00		Color			
Lithium	Li			Odor			
lercury	Hg	0.0206		Temperature	o _F		
lickel	Wi	0.0300		Turbidity			
Gelenium	Se	0.00		Alpha pc/l		10.0	
Silver	Ag ·	0.50		† deviation		0.0	
Strontium	Sr			Beta nc/1		1.8	
Cyanide	CN	0.00		- deviation		1.9	
Hydrogen Sulfide	Has						
NOTE: mg/l = mill:		ter		Specific			
= parts	s per mil	lion (ppm)		Conductance 84	0	nier	omhos/em
me/l = mill				-15 2 /	- 4 \	7,8	
mg/1 x 0.058	oj = graj	rus/garrou		pH value (as receiv	ed)	./()	2000
		This er		ved for laboratory uf	F 2 /	C	14/1
		11129 01	wee teset	Lab number	,3-34	Rec'd By_	Conver
				Date Sample rec'd	1.7	8.1.274	me: 69430
				Date Analyses ton	pleted	JUL	8 1976
				Date results forw		101	
				Total Test eque		FI	As Ruh
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							6 1976

COMPLETE MINERAL ANALYSIS

C 6009 FLD-010

DIVISION OF PUBLIC WATER SUPPLIES

Collected By: M.	dail	lend	EPA	Telephone No		2/896	-5001
PARAMETER	ТУМВО		me/l	PARALIETER		mg/1	me/l
Iron	Fe	0.1		Silica	SiO2		
Hanganese	Mn	0.08		Fluoride	F	0.4	
Calcium	Ca	84		Chloride	Cl	32	
Hagnesium	Mg	40	- (71)	Nitrate	NO ₃	1.3	
Ammonium NH-			==0156)	Sulfate	804	15	
Sodium	Na	18		Alkalinity	CVC03	302	
Potassium	K	2,6		Hardness	CACO3	378	
Residue	Evap			Carbon Dioxide	COS		
Dissolved Solids b	y EC	460		Zinc	Zn	0.01	
Aluminum	Al			Methane	СН4		
Arsenic	As	0.002		Phosphate	PO ₁₄	0.63	
Barium	Ba	0.1		Phenol			
Boron	В	0.4		Oil Selica	Lion	12:0	
Cadmium	Cd	0.00		Chromium (Tri)	Cr	0 00	
Chromium (Total)	Cr	0.00		Chromium (Hex)	Cr	0.00	
Copper	Cu	1.00		Organic Carbon			
Lead.	Pb	0.00		Color			
Lithium	Li			Odor			
Mercury	Hg	0.0 667		Temperature	O _F		
Hickel	Ni	. 0.6		Turbidity			
Selenium	Se	0.00		Alpha pc/l		0.2	
Silver	Ag	0.00		† deviation		0.8	
Strontium	Sr			Beta pc/1		4.0	
Cyanide	CN	0.00		- deviation		1.7	
Hydrogen Sulfide	H ₂ S						
mg/l = mill = part me/l = mill mg/l = 0.05	s per mil	llion (ppm) ents/l		Specific Conductance pH value (as rece	766 ived)		omhos/cm
	by m EIVEI	. Saille	ace reserve	Date Analyses of Total Tests reg	ompleted owarded uested 3	- 76 Tis	-76 5-76 sts Run 34

DIV. PUBLIC WATER SUPPLIED ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS REFERENCE NUMBER 1

ISWS/BUL-60(19)/76
BULLETIN 60-19
STATE OF ILLINOIS

DEPARTMENT OF REGISTRATION AND EDUCATION



Public Groundwater Supplies in McHenry County

by DOROTHY M. WOLLER and ELLIS W. SANDERSON

ILLINOIS STATE WATER SURVEY
URBANA
1976

services; the 1973 average and maximum daily pumpages were 2700 and 4000 gpd, respectively. The water is chlorinated. The natural fluoride concentration in the water is adequate to satisfy state requirements.

WELL NO. 1, finished in dolomite, was completed in March 1971 to a depth of 395 ft by Joseph Huemann & Sons,

McHenry. The well is located (b) (9)

The land surface elevation at the well is approximately 920 ft

A drillers log of Well No. 1 follows:

	Strata	Thickness (ft)	(ft)
CI	ay	10	10
Gr	ravei	30	40
Н	ardpan	172	212
Li	mestone	8	220
81	ue shale	5	225
G	ray shale	105	330
Li	mestone	65	395

The well is cased with 12-in, black pipe to an unknown depth and the hole was finished 12 in, in diameter to the bottom. The top of the well casing is equipped with a Monitor pitless adapter.

Upon completion, the well reportedly produced 400 gpm for 12 hr with a drawdown of 60 ft from a nonpumping water level of 88 ft below land surface.

The pumping equipment presently installed is a Red Jacket submersible pump set at 252 ft, rated at 450 gpm, and powered by a 50-hp electric motor.

The following mineral analysis (Lab. No. 195667) is for a water sample from the well collected May 14, 1974.

WELL NO. 1, LABORATORY NO. 195667

	n	ng/l	me/l			mg/l	mel
Iron (total)	Fe	0.2		Silica	SiO2	7.7	
Manganese	Mn	0.03		Fluoride	F T	3.0	
Ammonium	NHA	0.1	0.01	Boron	В	1.5	
Sodium	Na 1	69	7.35	Nitrate	NO	0.5	0.01
Potassium	K	2.5	0.06	Chloride	CI G	6	0.17
Calcium	Ca	2.7	0.13	Sulfate	SO _A	1.2	0.02
Magnesium	Mg	1.2	0.10	Alkalinity(as CaCOA	366	7.32
Strontium	Sr	0.12					
Barium	Ва	< 0.1		Hardness (as Caco3	11	0.23
Copper	Cu	0.06		Total disso	ived		
Cadmium	Cd	0.00		minerals		432	
Chromium	Cr	0.00					
L sad	Pb 4	< 0.05		Turbidity	1		
Lithium	Li	0.03		Color	0		
Nickel	Ni ·	< 0.05		Odor	0		
Zinc	Zn	0.00		Temp. (rep	orted) 53f	r	

UNION

The village of Union (579) installed a public water supply in 1912. One well (No. 3) is in use and another well (No. 2) is available for emergency use. In 1949 there were 125 services, none metered; the average daily pumpage was 30,000 gpd. In 1975 there were 150 services, none metered; the average and maximum daily pumpages were 96,737 and 145,000 gpd, respectively. The water from Well No. 2 is not treated. The water from Well No. 3 is chlorinated, fluoridated, and treated with polyphosphate to keep iron in solution.

WELL NO. 1, finished in sand and gravel, was completed in 1912 to a depth of 16 ft (measured 18.4 ft in 1928). This well was abandoned in 1935 and filled in between 1938 and 1947. The well was located about 45 ft south of Clark St. and 120 ft west of Wayne St., approximately 1550 ft S and 2500 ft E of the NW corner of Section 4, T43N, R6E. The land surface elevation at the well is approximately 835 ft.

A 10-ft diameter hole was dug to the bottom and walled with brick laid in cement mortar.

Nonpumping water levels varied seasonally from about 6 to 12 ft below land surface.

On September 7, 1938, after a short pumping period, the rate of inflow to the well was measured to be about 90 gpm.

WELL NO. 2, finished in dolomite in the Maquoketa Group, was completed in 1934 to a depth of 192 ft by P. E. Millis, Byron. This well is maintained for emergency use. The well is located (b) (9)

The land surface elevation at the well is approximately 835 ft.

A summary sample study log of Well No. 2 furnished by the State Geological Survey follows:

Strata	Tbickness (ft)	Deptb (ft)
PLEISTOCENE SYSTEM		
Wisconsin stage		
Gravel, sandy, oxidized, brown	5	5
Gravel, up to 1/2 in., sandy	5	10
Gravel, granular, sandy	5	15
Gravel, up to 1/4 in., sandy	15	30
Gravel, granular	5	35
Till, calcareous, maroon (Marengo)	30	65
Till, calcareous, pinkish-gray, tan	5	70
Quartzitic fragments, boulder	2	72
Till, as above	48	120
Same, gravelly	10	130
Illinoian (?) stage		
Till, calcareous, light brown	15	145
ORDOVICIAN SYSTEM		
Maquoketa shale		
Shale, light greenish-gray	5	150
Dolomite, crystalline, pyritic, white	40	190

The well is cased with 12-in, pipe from land surface to a depth of 150 ft.

In September 1955, after pumping at a rate of 74 gpm, the drawdown was 23.3 ft from a nonpumping water level of 47.5 ft.

In July 1958, the well reportedly produced 150 gpm for 6 min with a drawdown of 86 ft from a nonpumping water level of 50 ft below the pump base.

The pumping equipment presently installed consists of a 10-hp U.S. electric motor, an 8-in., 5-stage Layne turbine pump set at 150 ft, rated at 150 gpm at about 150 ft TDH, and has 150 ft of 5-in. column pipe. A 10-ft section of 4-in. suction pipe is attached to the pump intake.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C006008) is for a water sample from the well collected February 5, 1976, after 15 min of pumping at 150 gpm. The iron content has been as low as 0.1 on a previous analysis.

WELL NO. 2, LABORATORY NO. C006008

		mg/l	me/l			mg/l	me/l
tron	Fe	4.3		Silica	SiO2	9.5	
Manganese	Mn	0.01		Fluoride	F	0.6	0.03
Ammonium	NHA	0.98	0.05	Boron	8	0.7	
Sodium	Na "	26	1.13	Nitrate	NO2	0.6	0.01
Potassium	K	5.8	0.15	Chloride	CI	2	0.06
Calcium	Ca	38	1.90	Suifate	SOA	0	0.00
Magnesium	Mg	26	2.14	Alkalinity(as CaCO3	276	5.52
Arsenic	As	0.00	0				
Barium	Ba	0.3	_	Hardness (as CaCO	209	4.18
Copper	Cu	0.02			•		
Cadmium	Cd	0.00		Total disso	ived		
Chromium	Cr	0.00		minerals		276	
Leed	Pb	0.01					
Mercury	Hg	0.00	00	pH (as rec'	d) 8.1		
Nickel	NI	0.0		Radioactiv	ity		
Selenium	Se	0.00		Alpha pc.	1 1.6		
Silver	Ag	0.00		±deviatio			
Cyanide	CN	0.00		Beta pc/l	8.6		
Zinc	Zn	0.01		±deviatio	n 1.6		

WELL NO. 3, finished in sand and gravel, was completed in March 1962 to a depth of 80 ft by the J. P. Miller Artesian Well Co., Brookfield. The well is located (b) (9)

The land surface elevation at the well is approximately 832 ft.

A drillers log of Well No. 3 follows:

Strata	I Dickness (ft)	(ft)	
Top soil	3	3	ļ,
Sand	12	15	
Sand and gravel	65	80	

A 30-in. diameter hole was drilled to a depth of 80 ft. The well is cased with 12-in. wrought iron pipe from land surface to a depth of 60 ft followed by 20 ft of 12-in. No. 90 slot Cook stainless steel screen. The annulus between the bore hole and the casing-screen assembly is filled with clay and bentonite from 0 to 50 ft and with gravel from 50 to 80 ft.

Upon completion, the well reportedly produced 350 gpm for 3 hr with 2 drawdown of 4 ft from 2 nonpumping water level of 6 ft below the top of the casing.

In July 1969, after 10 min of pumping at a rate of 450 gpm, the drawdown was 3 ft from a nonpumping water level of 10 ft.

In 1970, the nonpumping water level was reported to be 20 ft.

The pumping equipment presently installed is a 10-in., 5-stage Byron Jackson oil-lubricated turbine pump (Serial No. 700229, Size 10 GL-5-STG) set at 40 ft, rated at 350 gpm at about 200 ft head, and powered by a 30-hp 1800 rpm U.S. electric motor (Serial No. 3385012).

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C006009) is for a water sample from the well collected February 5, 1976, after 1 hr of pumping at 450 gpm. Hydrogen sulfide has been apparent on previous samples.

WELL NO. 3, LABORATORY NO. C006009

	1		me/l			mg/i	me/l
Iron	Fe	2.1 ′		Silice	SiO2	12.0	
Manganese	Mn	80.0		Fluoride	F	0.4	0.02
Ammonium	NH ₄	0.58	0.03	Boron	8	0.4	
Sodium	Na	18	0.78	Nitrate	NO ₃	1.3	0.02
Potassium	K	2.6	0.07	Chloride	CI	32	0.90
Calcium	Ca	84	4.19	Sulfate	SO₄	75	1.56
Magnesium	Mg	40	3.29	Alkalinity(as CaCO3	302	6.04
Arsenic	As	0.002	?				7.66
Barium	Ва	0.1		Hardness (as CaCO3	3/8	7.56
Copper	Cu	0.00					
Cadmium	Cd	0.00		Total disso	ived		
Chromium	Cr	0.00		minerals		428	
Lead	РЬ	0.00					
Mercury	Hg	0.000	00	pH (as rec'd	7.8 (ا		
Nickel	Ni	0.0		Radioactiv	ity		
Selenium	Se	0.00		Alpha pc/	1 0.2		
Silver	Ag	0.00		± deviatio	n 0.8		
Cyanide	CN	0.00		Beta pc/l	4.0		
Zinc	Zn	0.01		± deviatio	n 1.7		

WALKUP WOODS SUBDIVISION

Walkup Woods Subdivision (est. 385), located 1 mile north of Crystal Lake, installed a public water supply in 1959. The water system is owned and operated by the Walkup Woods Water Co. of Utilities, Inc., and also furnishes water to Walkup Highlands and Upland Acres Subdivisions. One well (No. 1) is in use and another well (No. 2) is available for emergency use. In 1960 there were 20 services, few metered. In 1973 there were 90 services, all metered; the

average and maximum daily pumpages were 66,000 and 75,000 gpd, respectively. The water is chlorinated and treated with polyphosphate to keep iron in solution.

WELL NO. 1, finished in sand and gravel, was completed in November 1956 to a depth of 272 ft by the Henry Boysen Co., Libertyville. The well is located (b) (9)

The land surface elevation

house floor to a depth of 124 ft followed by 11 ft of 8-in. No. 25 slot Johnson Everdur screen.

Upon completion, the well reportedly produced 200 gpm for 8 hr with a drawdown of 15 ft from a nonpumping water level of 40 ft.

In 1965, the pump started to pump air, so the well was acidized, and the pump lowered from 80 to 110 ft.

The pumping equipment presently installed is a 6-in., 5-stage Sta-Rite turbine pump (Model No. 6MoH5STG, Serial No. 016499) set at 110 ft, rated at 90 gpm, and powered by a 15-hp 3600 rpm U.S. electric motor (Serial No. 2545739). A drillers log of Well No. 2 follows:

	Thickness	Depth
Strata	(ft)	(ft)
Top soil and brown clay	18	18
Clay and gravel	22	40
Mushy sand and clay	30	70
Hard gravel and clay	28	98
Fine dirty sand	12	110
Fine sand clean	10	120
Clean coarse gravel	15	135

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. 03956) is for a water sample from the well collected January 29, 1972.

WELL NO. 2, LABORATORY NO. 03956

mall mell

		mg/l	me/l			mg/i	men
tron	Fe	3.0	0.11	Silica	SiO2	14.5	
Manganese	Mn	0.0		Fluoride	F T	0.8	0.04
Ammonium	NH	0.5	0.03	Boron	8	0.3	
Sodium	Na	24		Nitrate	NO ₃	0.0	
Potassium	K	1.0	0.03	Chloride	CL	1.0	0.03
Calcium	Ca	40	2.00	Sulfate	SO ₄	0	-
Magnesium	Mg	27.5	2.26	Alkalinity(as CaCO	256	5.12
				Hardness (as CaCO	J 204	
Barium	Вa	0.0			•	,	
Copper	Cu	0.0		Total disso	ived		
Cadmium	Cd	0.00		minerals		230	
Chromium	Cr	0.0		pH (as rec'e	d) 7.7		
Lead	РЬ	0.00		Radioactiv	ity		
Mercury	Hg	< 0.00	05	Alpha pc	<i>l</i> 1		
Nickel	Ni	0.0		±deviatio	n 1		
Silver	Ag	0.0		Seta pc/l	0		
Zinc	Zn	0.0		± deviatio	n 1		

MARENGO

The city of Marengo (4235) installed a public water supply in 1893. Two wells (Nos. 4 and 5) are in use. This supply is also cross connected with the Arnold Engineering Co. well. In 1949 there were 700 services; the average daily pumpage was 300,000 gpd. In 1973 there were 1177 services, all metered; the average and maximum daily pumpages were 390,000 and 780,000 gpd, respectively. The water is fluoridated.

WELL NO. 1, finished in sand and gravel, was completed in 1893 to a depth of 15 ft. This well was abandoned and filled to the land surface in 1938. The well was located at the northeast corner of Telegraph Road and State St., approximately 57 ft N and 70 ft E of the SW corner of Section 25, T44N, R5E. The land surface elevation at the well is approximately 810 ft.

A drillers log of Well No. 1 follows:

Strata	Thickness (ft)	Depth (ft)
Black soil and clay	3 12	3 15

A 20-ft diameter hole was dug to a depth of 15 ft. The well was lined with brick and concrete (1.5 ft thickness) from 1.5 ft above land surface to a depth of 15 ft.

A production test using three observation wells was conducted by the Randolph-Perkins Co., Chicago, on May 27, 1924. After 6.6 hr of pumping at rates of 154 to 171 gpm, the final pumping level was 12.89 ft.

A second production test using three observation wells was conducted on November 12-13, 1924. After 9.5 hr of pumping at rates of 150 to 157 gpm, the final drawdown

was 6.19 ft from a nonpumping water level of 7.00 ft below land surface.

WELL NO. 2, finished in sand and gravel, was completed in 1925 to a depth of 21 ft (measured in July 1947 at 20.6 ft deep). This well was abandoned and filled in 1962. The well was located about 70 ft northeast of Well No. 1, approximately 100 ft N and 130 ft E of the SW corner of Section 25, T44N, R5E. The land surface elevation at the well is approximately 810 ft.

A drillers log of Well No. 2 follows:

	Thickness	Depth
Strata	(ft)	(ft)
Black soil and clay	3	3
Sand and gravel	18	21

A 25-ft diameter hole was dug to a depth of 21 ft. The well was lined with brick and concrete (1 ft in thickness) from 1 ft above land surface to a depth of 21 ft. This well was originally connected to Well No. 1 by a 4-in. pipe laid about 15 ft below land surface.

In August 1946, following a period of drought, the water level was lowered to the bottom of the well after pumping at a rate of 450 gpm for 1 hr. After a 15-min idle period, the water level recovered to its normal level.

On July 15, 1947, the well reportedly produced 150 gpm for 3 hr with a drawdown of 4.4 ft from a nonpumping water level of 7.3 ft below land surface.

A mineral analysis of a sample (Lab. No. 111091) collected July 15, 1947, after pumping for 3 hr at 150 gpm, showed the water to have a hardness of 378 mg/l, total dissolved minerals of 412 mg/l, and an iron content of 0.2 mg/l. WELL NO. 3 (formerly Borden Milk Co, well), open to the Cambrian-Ordovician aquifer, was completed in May 1951 to a depth of 1028 ft by the Varner Well and Pump Co., Dubuque, Iowa. This well is not in use because of a pump failure and a high hydrogen sulfide. The well is located on North Sponable St. south of West Railroad St., approximately 960 ft S and 1540 ft W of the NE corner of Section 35, T44N, R5E. The land surface elevation at the well is approximately 817 ft.

A correlated sample study log of Well No. 3 furnished by the State Geological Survey follows:

	Thickness	Depth
Strata	(ft)	(ft)
QUATERNARY SYSTEM Pleistocene Series		
Till and outwash ORDOVICIAN SYSTEM	190	190
Galena Dolomite Group	185	375
Platteville Dolomite Group	110	485
Ancell Group		
Glenwood Formation	155	640
St. Peter Sandstone	6 5	705
CAMBRIAN SYSTEM		
Eminence Dolomite	25	730
Potosi Dolomite	6 0	79 0
Franconia Formation	75	865
Ironton Sandstone	90	95 5
Galesville Sandstone	6 5	1020
Eau Claire Formation	8	1028

A partial record shows that a 17.2-in, diameter hole was drilled between the depths of 181.5 and 538 ft, and finished 12 in, in diameter from 538 to 1028 ft. The well is cased with 20-in, ID pipe from 4 ft below land surface to a depth of 70 ft, 18-in, OD pipe from land surface to a depth of 182 ft, and 12-in, OD pipe from 2 ft above land surface to a depth of 538 ft (cemented in).

On May 1, 1951, after 4 hr of pumping at a rate of 508 gpm, the drawdown was 109 ft from a nonpumping water level of 90 ft below the top of the casing.

On April 30, 1958, the well reportedly produced 300 gpm for 10 min with a drawdown of 61 ft from a nonpumping water level of 116 ft below the pump base.

On February 10, 1976, the well reportedly produced 500 gpm for 4 hr with a drawdown of 133 ft from a nonpumping water level of 145 ft.

The pumping equipment presently installed consists of a 50-hp 1760 rpm Louis Allis electric motor (No. 2366144), a Layne and Bowler turbine pump (No. 23294) set at 270 ft, and has 270 ft of column pipe. The well is equipped with 270 ft of airline.

A partial analysis of a sample (Lab. No. 201080) collected February 10, 1976, after pumping for 4 hr at 500 gpm, showed the water to have a hardness of 352 mg/l, total dissolved minerals of 373 mg/l, and an iron content of 0.8 mg/l. Hydrogen sulfide also was apparent when the sample was collected.

WELL NO. 4, finished in sand and gravel, was completed in January 1962 to a depth of 100 ft by the J. P. Miller

Artesian Well Co., Brookfield. The well is located

(9)

The land surface elevation at the well is approximately 805 ft.

A drillers log of Well No. 4 follows:

	Thickness	Depth
Strata	(ft)	(ft)
Top soil	2	2
Sand	20	22
Sand and gravel	10	32
Sand and clay	28	60
Clay	5	65
Sand, gravel, and boulders	35	100

A 30-in, diameter hole was drilled to a depth of 100 ft. The well is cased with 12-in, pipe from land surface to a depth of 75 ft followed by 25 ft of 12-in. No. 90 slot Cook stainless steel screen. The top of the well casing is equipped with a 16-in, diameter pitless adapter. The annulus between the bore hole and casing-screen assembly is filled with sand and bentonite from 0 to 50 ft and with gravel from 50 to 100 ft.

A production test was conducted by the driller on January 4-5, 1962. After 23.1 hr of pumping at rates of 400 to 1000 gpm, the drawdown was 49 ft from a nonpumping water level of 3 ft below land surface.

The pumping equipment presently installed consists of a 40-hp 1750 rpm Byron Jackson electric motor, a 10-in., 5-stage Byron Jackson submersible pump set at 65 ft, rated at 500 gpm at about 210 ft head, and has 60 ft of 6-in. column pipe. The well is equipped with 65 ft of airline.

A partial analysis of a sample (Lab. No. 201081) collected February 10, 1976, after pumping for 0.3 hr at 400 gpm, showed the water to have a hardness of 416 mg/l, total dissolved minerals of 484 mg/l, and an iron content of 2.6 mg/l.

WELL NO. 5, finished in sand and gravel, was completed in March 1962 to a depth of 85 ft by the J. P. Miller Artesian Well Co., Brookfield. The well is located (a) (9)

R5E. The land surface elevation at the well is approximately 810 ft.

A drillers log of Well No. 5 follows:

Strata	(ft)	(ft)
Top soil	5	5
Sand	10	15
Gravel	70	85

A 30-in, diameter hole was drilled to a depth of 85 ft. The well is cased with 12-in, wrought iron pipe from within a concrete foundation block to a depth of 60 ft followed by 25 ft of 12-in. No. 40 slot Cook screen. The annulus between the bore hole and casing-screen assembly is filled with sandand bentonite from 0 to 50 ft and with silica gravel from 50 to 85 ft.

A production test was conducted by the driller on March 9, 1962. After 15 hr of pumping at rates of 350 to 1010 gpm, the final drawdown was 47 ft from a nonpumping water level of 6 ft below the top of the casing.

On January 17, 1975, the nonpumping water level was reported to be 18 ft.

The pumping equipment presently installed consists of a 40-hp 1750 rpm U.S. Holloshaft electric motor, a 10-in., 5-stage Byron Jackson turbine pump set at 40 ft, rated at 500 gpm at about 210 ft head, and has 40 ft of 6-in. column pipe. The well is equipped with 40 ft of airline.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. B120113) is for a water sample from the well collected January 6, 1975, after 1 hr of pumping at 530 gpm.

WELL NO. 5, LABORATORY NO. B120113

	,	ng/l	me/l			mg/l	me/l
Iron	Fe	0.6		Silica	SiO2	13	
Manganese	Mn	0.2		Fluoride	F	0.1	0.00
Ammonium	NHA	0.1	0.01	Boron	8	0.1	
Sodium	Na	19	0.83	Nitrate	NO3	3.3	0.05
Potassium	K	2.3	0.06	Chloride	C1	60	1.69
Calcium	Ca	89	4.44	Sulfate	so ₄	70	1.46
Magnesium	Mg	41	3.37	Alkalinity(288	5.76
Arsenic	As	0.00			•		
Barium	Ba	0.1		Hardness (as CaCOa	390	7.80
Copper	Cu	0.00			J		
Cadmium	Cd	0.00		Total disso	ived		
Chromium	Cr	0.00		minerals		441	
Lead	Pb	0.00					
Mercury	Hg	0.00		pH (as rec'	d) 7.6		
Nicket	Ni	0.0		Radioactiv	ity		
Selenium	Se	0.00		Alpha pc	1 1.4		
Silver	Ag	0.00		± deviatio	n 1.9		
Cyanide	CN	0.00		Beta pcil	0.3		
Zinc	Zn	0.0		± deviatio	n 1.9		

PISTAKEE HIGHLANDS SUBDIVISION

Pistakee Highlands Subdivision (est. 1630), located 0.5 mile northeast of Sunnyside, installed a public water supply in 1954. The water system is owned and operated by the Pistakee Highlands Water Co. of Utilities, Inc. One well (No. 2) is in use and another well (No. 1) is maintained for emergency use. This supply is cross connected with the Whispering Hills Water Co. In 1955 there were 90 services, all metered. In 1973 there were 480 services, all metered; the estimated average and maximum daily pumpages were 63,000 and 95,000 gpd, respectively. The water is chlorinated and treated with polyphosphate to keep iron in solution.

WELL NO. 1, finished in sand and gravel, was completed in September 1954 to a depth of 93 ft by Joseph Huemann & Sons, McHenry. This well is maintained for emergency

use. The well is located (b) (9)

The land surface elevation at the well is approximately 780 ft.

A drillers log of Well No. 1 follows:

Strata	Thickness (ft)	Depth (ft)
Sand and gravel	27	27
Red clay and stones	9	36
Clay	19	55
Sandy clay	6	61
Clay and stones	7	68
Sticky sand	19	87
Gravei	6	93

A 12-in. diameter hole was drilled to a depth of 93 ft. The well is cased with 12-in. pipe from 1.2 ft above the pumphouse floor to a depth of 83 ft followed by 10 ft of 12-in. No. 18 slot Johnson Everdur stainless steel screen.

Upon completion, the well reportedly produced 250 gpm for 12 hr with a drawdown of 10 ft from a nonpumping water level of 43 ft below the pump base.

Nonpumping water levels were reported to be 44 ft in February 1961, and 41.80 ft below land surface on October 23, 1964.

The pumping equipment presently installed is a Deming submersible pump set at 80 ft, rated at 50 gpm, and powered by a 25-hp 3600 rpm U.S. electric motor (Model No. A132520-2, Serial No. 1316715).

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. 03539) is for a water sample from the well collected December 30, 1971, after 30 min of pumping.

WELL NO. 1, LABORATORY NO. 03539

		mg/l	meil			mg/l	me/l
Iron	Fe	0.1	0.00	Silica	SiO2	24	
Manganese	Mn	0.0		Fluoride	F	0.4	0.02
Ammonium	NH,	0.0		Boron	В	0.0	
Sodium	Na	11.4	0.50	Nitrate	NO ₃	0.0	
Potassium	K	0.9	0.02	Chloride	CI	7.5	0.21
Calcium	Ca	72	3.59	Sulfate	so ₄	55	1.14
Magnesium	Mg	44	3.62	Alkalinity(a	as CaCO ₃	296	5.92
				Hardness (a	as CaCO ₂	356	
Barium	Ва	0.0			•		
Copper	Cu	0.0		Total disso	ived		
Cadmium	Cd	0.00		minerals		380	
Chromium	Cr	0.0		pH (as rec'o	1) 7.7		
Lead	Pb	0.00		Radioactivi	ity		
Mercury	Hg	< 0.00	05	Alpha pc/	1 0		
Nickel	Ni	0.0		± deviatio	n 1		
Silver	Ag	0.0		Beta pcil	0		
Zinc	Zn	0.0		±deviatio	n 2		

WELL NO. 2, finished in sand and gravel, was completed in September 1956 to a depth of 202 ft by Joseph Huemann & Sons, McHenry. The well is located (b) (9)

The land surface elevation at the well is approximately 782 ft.

A drillers log of Well No. 2 follows:

INSTRUCTIONS TO UNILLERS

White Copy — III. Dept. of Public Health Yellow Copy — Well Contractor Blue Copy — Well Owner FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DE-PARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

	Tubular				
		(KIND)	FROM (Ft.)	TO (Ft.)	
,	Distance to Neare	et.			
	Building	Ft.	Seepage Tile	Field 100	
	Cess Pool		Sewer (non C	ast iron)	
	Privy			ron)	
	c m 1 100	0	Barnward		
	Septic Tank 100		Dainyara		
	Leaching Pit				
	Leaching Pit Is water from this Yes XX N	well to be u	Manure Pile_ sed for human	consumption?	
1.	Leaching Pit Is water from this Yes XX N Date well complete	well to be u	Manure Pile_sed for human	consumption?	
١.	Leaching Pit Is water from this Yes XX N Date well complete Permanent Pump	well to be u ted Sept, 2 Installed?	Manure Pile_sed for human of 23,1972 Yesox	consumption?	
١.	Leaching Pit Is water from this Yes XX N Date well completed Permanent Pump Manufacturer	well to be u ted Sept, 2 Installed? Barnes	Manure Pile_sed for human of 23,1972 Yesox Type_	NoSub_	
i.	Leaching Pit Is water from this Yes XX N Date well complet Permanent Pump I Manufacturer Capacity15	well to be u to Sept, 2 Installed? Barnesgpm. Dep	Manure Pile_ sed for human 23, 1972 Yes Type oth of setting	NoSub.	
i.	Leaching Pit Is water from this Yes XX N Date well complet Permanent Pump Manufacturer Capacity 15 Well Top Segled?	well to be u ted Sept, 2 Installed? Barnesgpm. Dep Yes XX	Manure Pile _ sed for human of	NoSub.	f
i.	Leaching Pit Is water from this Yes XX N Date well complet Permanent Pump Manufacturer Capacity 15 Well Top Segled?	well to be u ted Sept, 2 Installed? Barnesgpm. Dep Yes XX	Manure Pile _ sed for human of	NoSub.	f
4.	Leaching Pit Is water from this Yes XX N Date well complet Permanent Pump I Manufacturer Capacity15	well to be u ted Sept, 2 Installed? Barnesgpm. Dep Yes XX	Manure Pile _ sed for human of	NoSub.	f

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Pr	roperty	owner		_ Well No	1	
A	ddress	(b) (9)	_			
D	riller	Paul Barker	Licen	se No	92-5	63
11. P	ermit l	New 16511		Sept.		
12. W	ater fr	om_Rook	13. Cou	inty Mcl	Henr	y
	J1	160 Promition toft.	Sac	32 .5	1 [TT
14 5	aeptn	Diamin.	Tw	- HAW	-	+++
14. 50	ength:	ft. Slot	Rec	. 6E	-	
	engtin.			v	_	171
15. C	asing	and Liner Pipe	2.0		L	
Dlam.	(in.)	Kind and Weight	From (Ft.)	To (Ft.)	Lo	SHOW CATION IN
	5	15# por. ft.	Om	160	SEC	TION PLA
	7	4)# por 1 0 s	Citi	100	1	te ent
					NE	UE SW
17. St ab	tatic le bove gi	vel 3 ft. below car ound level. Pumping]] h hours.	sing top whi			g at <u>70</u>
17. St ab	tatic le bove gr om for	ound level. Pumping]]	sing top whi vel <u>23</u> ft	. when pu		g at _70_
17. St ab	tatic le bove gr om for	evel 3 ft. below car cound level. Pumping1] 4 hours.	sing top whi vel <u>23</u> ft	. when pu	mpin	g at _70_
17. St ab	tatic le bove gr om for	evel3_ft. below care cound level. Pumpinglls liphours.	sing top whi vel <u>23</u> ft	THICK	Impin	DEPTH OF BOTTOM
17. St ab	tatic le bove gr om for	round level. Pumpingly hours. RMATIONS PASSED THROUTE Topsoil Clay	sing top whi evel 23 ft	THICK	Impin	DEPTH OBOTTOM
17. St ab	tatic le bove gr om for	rvel3 ft. below care ound level. Pumpingly hours. RMATIONS PASSED THROUTE Clay Glay Grave	sing top whi evel 23 ft	THICK	Impin	DEPTH 0 BOTTOM 20
17. St ab	tatic le bove gr om for	rvel3 ft. below care ound level. Pumpingly hours. RMATIONS PASSED THROUTE Clay Glay Grave	sing top whi evel 23 ft	THICK	Impin	DEPTH 0 BOTTOM 20

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III. Dept. of Public Health
Yellow Copy — Well Contractor
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10. Property owner (b) (6)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

		Finished	pe Diam5i lin Drift PackedXX	. In Rock	_ft.
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)	
2.	Distance to Near				
	Building 25	Ft.	Seepage Tile F	ield 95	
	Cess Pool				
	Privy Septic Tank	100	Sewer (Cast ire		
	Leaching Pit		Barnyard		
	Is water from this	well to be u	sed for human co	onsumption?	
	Yes XX N	May 19	.1972		
•	Permanent Pump	Installed?	vas XX	No	
•	Manufacturer	Barnes	Tyne	Sub.	
	Capacity 15	gpm. Det	oth of setting	80	ft
	Well Top Sealed?				
	Pitless Adaptor I				
	Fittess Adaptor I	Yes XX	No		
	Wall Disinfected?	163			
	Well Disinfected?				
	Well Disinfected? Water Sample Sub	mitted? Ye	es	No	

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Well No. 1

	Driller	Paul	Barker	L	icens	e No. 9	2-56	3	
11.			506						
	Water f	rom Gr	avel	13.	Cou	nty/icHe	nry		
	-4 -14	80 to	126tion		Sec	32	20 [_
14	Screen	Diam.	in.		Twn	- HAN	-	x	-
14.	Length	:ft.	Slot		Rae	6E	-	11^	_
	Lengen		0.00		-	,	_		X
15.	Casing	and Liner	Pipe		Lie				
Dia	m. (in.)		and Weight	From	(Ft.)	To (Ft.)	Lo	SHOW	11
	5	15 # P	er FT.	0		80	SEC	TION PI	L
								U 200'	
-				-	-		Sec	SW Nie	
<u></u>	C: 11	1 1 1					,		
			_ft. below ca		bi	h in	-		
17.			el. Pumping le						
		hound leve		VC1	10.	waen p	amp m	, ur—30	_
18.	F	ORMATIONS	PASSED THRO	UGH		THICH	CNESS	DEPTH BOTTO	OM
_	Tops	oil	Clay			0		30	_
-	Clay		Sand			30		80	-
						-			_
	Sand		Gravel			80		126	
									-
_						-			-
									-
						-			4
-									
(C	IUNITNO	ON SEPA	RATE SHEET I	F NECES	SARY)			
	6)	Back	2		Marr	19	1972	
SIG	NED _S	Zoul	wars	en	_ DA	TE TE	-/ 5	-/12	

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to week

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONCEDUCATION DEDOOR

	WELL CONSTRUC	TION REPORT		
	m / 111 11			10. Property o
1.	Type of Well	1- D:	D -11 M	Address
	a. Dug Bored Ho	ole Diamin	. Depthit.	Driller
	b. Driven Drive Pipe	irled Slab: Tes_	Death 244 th	11. Permit No
	b. Driven Drive Pipe	e Diam. 1/4_in.	Depth 27 It.	12. Water from
	c. Drilled Finished: Tubular Gravel Pa		In Nock	at depth_
	d. Grout:	cked		14. Screen: D
	d. Glout. (KIND)	FROM (Ft.)	TO (Ft.)	Length:
				15. Casing an
				Diam. (in.)
				114 6
2.	Distance to Nearest:		110	5
	Building 75 Ft.	Seepage Tile Fie	eld	
		Sewer (non Cast		
		Sewer (Cast iron)		16. Size Hole
	Septic Tank 90 - 130			17. Static leve
_	Leaching Pit			above grou
3.	Is water from this well to be use	ed for human cons	sumption?	gpm for <u>L</u>
	Yes No	74 1	**	18. FORM
4.	Date well completed 4-/-	//		
5.	Permanent Pump Installed? Y	es	No	101
	Manufacturer 5714-R17E			YELLOY
	Capacity / O gpm. Dept			
	Well Top Sealed? Yes			SAND
	Pitless Adaptor Installed?			
8.	Well Disinfected? Yes	No		
9.	Water Sample Submitted? Yes	N N	0	•
REN	MARKS:			***
				(CONTINUE)O
IDI	PH 4.065			11
				/ V /M

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner		Well No.	55
Address .			
Driller BURGESS+50 X	Licens	e No. 102	-58
11. Permit No. 20682	Date _	4-1-74	
12. Water from SAND + GRAVE	= 13. Com	nty DKHEN	RY
at depth 4 to 24 ft.	Sec.	32.60	
14. Screen: Diamin.	Twn	. 44N	+
Length:ft. Slot	Rae	LE -	+++
15. Casing and Liner Pipe			
Diam. (in.) Kind and Weight	From (Ft.)	To (Ft.)	SHOW CATION IN
14 GALV	0	A U SEC	TION PLAT
		1000	,2 1009, m
		NE	CNE SW
 16. Size Hole below casing: 17. Static level 5 ft. below casing above ground level. Pumping level gpm for 14 hours. 	ng top which		g at 10 ft.
18. FORMATIONS PASSED THROUGH	ЭН	THICKNESS	DEPTH OF BOTTOM
TOP SUIL		1	/
YELLOW CALY		3	4
SAND GRAVE		20	24
(CONTINUE)ON SEPARATE SHEET IF	NECECCADA		
CONTINUE ON SEPARATE SHEET IF			

10/68

INSTRUCTIONS TO DRILLERS

White Copy -III. Dept. of Pu. . Health Yellow Copy - Well Contractor Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUE 2D AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug	Bored Hol	le Diam. 5 in	. Depth 40 ft.
				No
				Depthft.
	c. Drilled	ౣ . Finished i	n Drift	In Rock
		Gravel Par	cked	
	d. Grout:	(KIND)	FROM (Ft.)	TO (Ft.)
		Gravel	0	40
				· .
2	Distance to Ne	waat.		
	Building 40		Farmer Tile Fi	
	Cess Pool			eld
	Privy			iron)
	Septic Tank		Sewer (Cast iron	
	Leaching Pit_			
2				- V N
				es_X_ No
		leted11/20		1/05 **
5.	Permanent Pum	pinstalled: Yes	S_X_Date 1/21	0/85 No
				tion in well
_	Capacity	gpm. Depth of	Setting 40	Ft.
0.	Well Top Sealer	d? YesX_No.	Туре	lilliasm Cap
/.	Pittess Adapter	Installed? Ye	sX No	25040
				erB50AC
•		casing?Lo		
		d? Yes_x_		
		pment Disinfecte		
10.				X Trol
	Location	Basement	 	
11	Water Sample St	ubmitted? Yes	No	
RE	MARKS:		10	#24743
	Owner isnt	ructed to	take sampl	е.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Addres Driller	Marvin Nice	Licens	Well No	02 0	02458
11. Permit	No. 121056	Date			
12. Water f	rom Gravel	13. Cou	nty <u>M</u> C	Henr	· V
at dept 14. Screen Length	th 35 to 40 ft. : Diamin. ::ft. Slot	Twp Rge	33,5 44N 6E	H	
	and Liner Pipe			Ш	
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)		ATION IN
. 5	Black Steel	0	40	SECT	ION PLA
	15 lbs per ft			chel	NW NU
	•			ישניו	100 100
	r <u>4</u> bours.				
	r Abours. CORMATIONS PASSED THROU				
18. Top	Soil		тніск	NESS 1	DEPTH OF BOTTOM
18. Top	ORMATIONS PASSED THROU		ТНІСЕ	NESS 1	at 10 DEPTH OF BOTTOM 3 35
18. Top	Soil , Gravel & Clay		тніск	NESS 1	DEPTH OF BOTTOM
Top Sand	Soil , Gravel & Clay		тніск	NESS 1	DEPTH OF BOTTOM
Top Sand	Soil , Gravel & Clay		тніск	NESS 1	DEPTH OF BOTTOM
Top Sand	Soil , Gravel & Clay		тніск	NESS 1	DEPTH OF BOTTOM

County of	न स ंहाग ः)			4 14	AFFIDAV	
					Marvin R.	Nice		2Dd
George Por	nto" 1	Yes.		1.1.	,	. *		-
a true and corre	et states	ment of th	e details o	f the shows	st duly sworn, o	well dwilled for	and brownsadows	-
as follows	-	-		4 2	was the state of the state of		and the same	
		1 1		Location	in section	1/4, 57 1/	1. TE 1/1;	
				Section	33 Towns	hip / N	Range (E	
		T		County	Lellenry			_
NW-		NE-		Well name	and number	So.		
	K.			Year drill	d Unknown	÷		
				Reason fo	r plugging Fu	el Cil in t	eter	
	- 33 -	++	+-	Total dep	th 15'	Formation	Sand & G	"?.1
					depth determin			
		1 1		11011 11140	acpon accornin		ed ::	
SW		SE-		Diameter	of well at land			
					clear of obst			
				ging?	Yes			
		1 !		Denth of	obstruction	•	Natu	re e
	corately on p	plat of section 100 ft.)			on		1140	
					100			
Drilling permit	No. and	date, if l	mown					
Permit issued to								
Kind of drilling	tools na	ed		D	ate plugging co	mpleted	12/22	
Property owner				A				
rioperty owner		(0)		A	uul 699—			
					1 = 00			
	tor_C	ountry	Mall 5	Pimp A	ddres 17207	Corel 5. 5	toer, Vale	C.F
Drilling contrac	tor C	ountry		±ΩG.		Corel E. S	toer. Vale	cñ,
Drilling contract			DE	TAILS OF	PLUGGING			
Drilling contract	Comen	t mL or other M	DE*	TAILS OF	PLUGGING	To_	16	_fe
Drilling contract Filled with Kind of plug	Comen:	t mL or other 16	DE*	TAILS OF	PLUGGING rom 0	To	18	_fe
Drilling contract Filled with Kind of plug Filled with	Comen	t mil or other 16	DE	TAILS OF	PLUGGING O rom O	To To	18	_fe _fe
Filled with Kind of plug Filled with Kind of plug	Comen	t mA or other 36	DE [*]	TAILS OF	PLUGGING rom 0 rom rom	To To To	10	_fe _fe _fe
Drilling contract Filled with Kind of plug Filled with	Comen	t mA or other 36	DE [*]	TAILS OF	PLUGGING rom 0 rom rom	To To To	10	_fe _fe _fe
Filled with Kind of plug Filled with Kind of plug	Cenen	t std. or other M	DE ^s	TAILS OF	PLUGGING rom 0 rom rom rom	ToToToTo	10	_fe _fe _fe _fe
Drilling contract Filled with Kind of plug Filled with Kind of plug Filled with	Cenen	t std. or other M	DE'	TAILS OF	PLUGGING O rom o rom rom rom rom	ToToToTo	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with	C cmen	t std. or other M	DE deteriols)	TAILS OF	PLUGGING O rom o rom rom rom rom	ToToToTo	10	_fe _fe _fe _fe
Drilling contract Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug IN V	Comen (C	t std. or other M	DE deteriole)	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug IN V	C cmen	t std. or other M	DE deteriols)	TAILS OF	PLUGGING O rom o rom rom rom rom	ToToToTo	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	Comen (Com	t std. or other M	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe_fe_fe_fe_fe_fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	ToToToToTo	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O rom o rom rom rom rom	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF	PLUGGING O TOM TOM TOM TOM ECORD	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF FI FI CASING R OUT TO (FL)	PLUGGING rom 0 rom rom rom rom ECORD	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF FI FI CASING R OUT TO (FL)	PLUGGING O TOM TOM TOM TOM ECORD	To	10	_fe _fe _fe _fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF F F F CASING R OUT To (Ft) Per	PLUGGING rom 0 rom rom rom ECORD	To	Or or con tred of well.)	_fe_fe_fe_fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF FI FI CASING R OUT TO (FL)	PLUGGING rom 0 rom rom rom ECORD	To	10	_fe_fe_fe_fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF F F F CASING R OUT To (Ft) Per	PLUGGING rom rom rom rom ECORD (B) (6)	TO	r or con tool of well.)	_fe_fe_fe_fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF F F F CASING R OUT To (Ft) Per	PLUGGING rom 0 rom rom rom ECORD	TO	Or or con tred of well.)	_fe_fe_fe_fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (FL)	To (Ft.)	DE (PULLED From	TAILS OF FOR	PLUGGING rom rom rom rom ECORD (B) (6)	TO	r or con tool of well.)	fe fe fe fe
Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with In the second of plug Diameter (In.)	VELL From (Ft)	To (Ft.)	PULLED From (FL)	TAILS OF FOR THE PROPERTY OF	PLUGGING rom rom rom rom ECORD (B) (6)	TO	r or con tool of well.)	fe fe fe fe

INSTRUCTIONS TO DRILLERS

White C /III. of Public Health
Yellon /- Wall Contractor
Blue Copy - Wall Owner

FILL IN ALL FERTINENT INFORMATION - MESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONJUNER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 32761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. DESURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well
	a. Dug Bored Hole Diam in. Depth 12 ft.
	Curb material Buried Slab: YesNo
	b. Driven Drive Pipe Diemin. Depthft.
	c. Drilled XX . Finished in Drift . In Rock xx
	Tubular . Gravel Packed
	3 Grout:
	(KIND) FROM (FL) TO (FL)
2.	Distance to Newest:
	Building 30 Ft. Seepage Tile Field 109
	Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron)
	Septic Tank 8.5 Barnyard
	Leaching Pit Monure Pile
3.	Well furnishes water for human consumption? Yes X No
4.	Dute well completed March 30 1977
5.	Permonent Pump Installed? Yes X Date 3/30/77 No
	Manufacturer Touvell Type & sub Location in well
	Capacity 30 gpm. Depth of Setting 21 Ft.
6.	Well Top Secled? Yes X No Type Wells
	Pitless Adapter Installed? Yes XX No
	Manufacturer Walls Model Number
	How attached to casing?, II-Bolt.
8.	Well Disinfected? Yes XX No
a	Purry and Equipment Disinfected? Yes Y No
10	Pressure Tank Size 40 gal. Type Well-X-Trol
10.	Location In Basement
11	Water Sample Submitted? Yes Y No
	MARKS:
nei	MAINS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10.	Proper	ty owner.(b) (6)	<u> </u>			motoredgy orders to a family and a gent of the
	Driller	Paul Barker	Licens	o No	02_5	563
11		No58152	Date _			-
12.	Water !	iom Gravel	13. Cour			
				,	-	
		tb 10 to 45 ft.		33.160	_	
14.		: Dicmin.		- 441		
	Length	:ft. Slot	•	· -6 <u>F</u>		
15.	Casing	and Liner Pipe	Elev	/. 		X,
Die	m. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	1.0	SHOW CATION IN
F	3	15# per ¶t.	0	1,5	SEC.	TION PLAT 10, 60'E, SUX SE SE
					70	
17.	Static above gpm fo	level 8 ft. helow casi ground level. Pumping lev r 1 hours.	ng top which	when pur	mping	ft.
18.	F	ORMATIONS PASSED THROUGH	CH	THICK	1E33	DEPTH OF BOTTOM
-	Sand			0		10
	Grave	el		10		<u>45</u>
-				_		
	NED -	E ON SEPARATE SHEET IF		-	c. f	1177

INST TIONS TO DRILLERS

h.; Copy —
hi. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

WELL CONSTRUCTION REPORT Type of Well a. Dug Bored Hole Diamin. Depthft. Curb material Buried Slab: YesNo b. Driven Drive Pipe Diamin. Depthft. c. Drilled Finished in Drift In Rock Tubular Gravel Packed d. Grout: (KIND) FROM (Ft.) TO (Ft.)	12. Water from	well No. 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10 /0 /02 10
		To (Ft.) SHOW LOCATION IN
Building Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron) Privy Sewer (Cast iron) Septic Tank Barnyard Leaching Pit Manure Pile: Well furnishes water for human consumption? Yes No	16. Size Hole below casing:in. 17. Static level 10 ft. below casing top what above ground level. Pumping level 20 ft.	
. Date well completed	18. FORMATIONS PASSED THROUGH	THICKNESS DEPTH OF BOTTOM
Monufacturer No. 10012 Type No. Location in 1012	Ton Goil	2 2
Capacity 10 gpm. Depth of Setting 10 Ft.		
Well Top Sealed? YesNoTypeTinne Com	Sand A Oravel	53 55
Manufacturer Model Number Doorg	Larmo Cravel	6 51
How attached to casing? To character		
. Well Disinfected? YesNo		
Pump and Equipment Disinfected? YesNo		
Pressure Tank Size / gal. Type 11		
LocationNoNoNo		
EMARKS:		

IDPH 4.065 1/74 - KNB-1 (59571--123 M Seta--6-74)

City Union	_County_ Me Henry
Section 34,16 Twp. No. 4	YHN Range GE
	0'\$ and 80' W at SE/C
Owner D. Hill Nursery Co.	Authority.
Contractor Layne Western Co. Ir	Address Aurora, Ellinois
Date drilled 4/8/72	Elev. above sea level top 61 wd.
Depth 90 90.5	
Log 0-1/2 - Topsoil , 1	1/2 - 51/2 Sand & Eravel,
5-11/2-56 Sandy Clay, 56-	90 Sand& Bravel
Were drill cuttings saved Yes	Where filed State Geological Survey
Size hole 38" If reduced, where and	l how much No. 6 (80 Stat)
Casing record 16" Casing 0-7	1 how much No. 6 (80 Shot) 16" Shutter Screen 70'-90
Distance to water when not pumping 10' (M	
feet after pumping at 1250	
Reference point for above measurements Co	sing Top - 1'above Ground level
Type of pump Submersible	_Distance to cylinder 46
Length of cylinder 8	Length of suction pipe below cylinder
Length stroke	Speed
	Type of power
Rating of motor 100 H.P.	Rating of pump in G. P. M. 1000
Can following be measured: (1) Static water	level Yes
(2) Pumping level Yes	_(3) Discharge No
	Jacent
Temperature of water 54°	_Was water sample collected Yes
·	Effect of water on motors, hot water
coils, etc.	
Date of Analysis	Analysis No
	Recorder
2667-22617 12	Date

INSTRUCTIONS TO DRILLERS

White Copy
III, Dap L. rublic Health
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Blue Copy — Well Owner

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GEOLOGICAL AND WATER SURVEYS WELL RECORD

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

		10. Property owner HILL HITTETY CO. Well No.	
1.	Type of Well	Address Rt. 176 & Franklinville Rd Union, T	Ll
	a. Dug Bored Hole Diam. 6 in. Depth 20 ft.	Driller Maryin Wico License No. 102 (102),50	
	Curb material Buried Slab: YesNo	11. Permit No. 90181 Date 10/9/79	
	b. Driven Drive Pipe Diamin. Depthft.	12. Water from Crave! 13. County !!clichter	
	c. Drilled X. Finished in Drift In Rock.		
	Tubular Gravel PackedX	at depth $\frac{l_1}{l_1}$ to $\frac{90}{l_2}$ ft. Sec. $\frac{2l_1}{l_2}$	
	d Grout:	14. Screen: Diam. 6 in. Twp. 441. Length: 16 ft. Slot 16 Rge.	
	(KIND) FROM (Ft.) TO (Ft.)		
	Gravel 0 90	Elev	
		15. Casing and Liner Pipe	
		Diam. (in.) Kind and Weight From (Ft.) To (Ft.) SHOW LOCATION IN	
		(" Black Steel 0 76 SECTION PLAT	
2.	Distance to Nearest:	19.45 lb per f. SE SE NE	
	BuildingFt. Seepage Tile Field		
	Cess Pool Sewer (non Cast iron)	(ivergation)	
	Privy Sewer (Cast iron) Septic Tank Barnyard	16. Size Hole below casing:in.	
	Septic Tank 78 Barnyard	17. Static level 12 ft. below casing top which is 1 ft.	
	Leaching Pit Manure Pile	above ground level. Pumping level 15 ft. when pumping at 10	
3.	Well furnishes water for human consumption? YesNo	gpm forhours.	
4.	Date well completed $10/10/77$	19 FORMATIONS PASSED THROUGH THICKNESS DEPTH OF	
5.	Permanent Pump Installed? YesDateNoY	18. FORMATIONS PASSED THROUGH THICKNESS DEPTH OF BOTTOM	
	ManufacturerTypeLocation	Top Soil 3 3	
	Capacitygpm. Depth of SettingFt.		
	Well Top Sealed? Yes X No Type Type Cop.	Sund & Cravel 87 99	
7.	Pitless Adapter Installed? Yes No		
	Manufacturer Villiams Model Number B60AC	•	
	How attached to casing? <u>Lockout</u>		
	Well Disinfected? Yes X No		
	Pump and Equipment Disinfected? YesNo		
10.	Pressure Tank Sizegal. Type		
	Location		
11.	Water Sample Submitted? YesNo		
RE	MARKS:		
		·	
		(CONTINUE ON SEPARATE SHEET IF NECESSARY)	
		SIGNED DATE 10/15/79	
		SIGNED	

IDPH 4.065 1/7 KNB-1 (5957 ₂M Sets--6-74) 4 5 5 White Copy — III. Dept. of Public Health Yellow Copy — Well Contractor Blue Copy — Well Owner

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diam. 5 in. Depth 51 ft. Curb material Buried Slab: YesNo b. Driven Drive Pipe Diam. in. Depth ft. c. Drilled X . Finished in Drift In Rock
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)
2.	Distance to Nearest:
	Building Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron) Privy Sewer (Cast iron)
	Septic Tank Barnyard Leaching Pit Manure Pile
3.	Well furnishes water for human consumption? Yes_x_No
4.	Date well completed
5.	Manufacturer Type Location Ft.
6.	Well Top Sealed? Yes_x_NoTypewatertite
7.	Pitless Adapter Installed? Yes _ x No
	Manufacturer Baker-monitor Model Number snappy How attached to casing? compression
	Well Disinfected? Yes x No
	Pump and Equipment Disinfected? YesNo
10.	Pressure Tank Sizegal. Type _Con_Aire
	Water Sample Submitted? YesNoX_ MARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Well No.

10. Property owner D. Hill Nursury

	Address	Rte 31 & 72	W. Dunddes	. TIT.	
		William M. Boetsc			
11	Permit No	o. 13323	Date	4-21	-78
		m Gravel		nty McF	
		Formation		•	
		10_ to £ 51ft.		34	
4.		Diam. 5 in.		- 44N	
		4 ft. Slot 25 ler hook		6E_	
15		nd Liner Pipe	Fie	·	
		Kind and Weight	From (Ft.)	To (Ft.)	SHOW
	5				LOCATION IN SECTION PLAT
-	2	P V C	1	47	ZECIN, ICDIE, SL.
			-		SE LE LE
		below casing:	1		CU, 1-xee hixe
	above gro	vel 10 ft. below con ound level. Pumping le 2 hours.			
18.	FOR	MATIONS PASSED THRO	пен	THICK	NESS DEPTH OF BOTTOM
18.	For Top soi	MATIONS PASSED THRO	исн	10	DEPTH OF BOTTOM
18.	Top soi	MATIONS PASSED THROU	ugh	10	10
18.		MATIONS PASSED THROU	исн	-	
18.	Top soi	MATIONS PASSED THROU	исн	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
18.	Top soi	MATIONS PASSED THROU	UGH	10	10
	Top soi	MATIONS PASSED THROU		10. 41.	
	Top soi	RMATIONS PASSED THROU		10. 41.	10

INSTRUCTIONS TO DRI' TRS

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1.	Type of Well a. Dug Bored Hole Diam. 155x. Depth 71 ft. Curb material Buried Slab: YesNo
	b. Driven Drive Pipe Diamin. Depthft.
	c. Drilled X . Finished in Drift In Rock
	d. Grout: (KIND) FROM (Ft.) TO (Ft.)
2.	Distance to Nearest: Building Ft. Seepage Tile Field Cess Pool Sewer (non Cast iron)
	Privy Sewer (Cast iron) Septic Tank Barnyard Manure Pile
3.	Well furnishes water for human consumption? Yes_X_No
4.	Date well completed 14/19/78 Permanent Pump Installed? Yes Date No No
5.	Manufacturer
6.	Well Top Sealed? Yes x No Type watertite
7.	Pitless Adapter Installed? Yes x No Manufacturer Baker-monitor Model Number snappy How attached to casing? compression
8.	Well Disinfected? Yes No
	Pump and Equipment Disinfected? Yes No
10.	Pressure Tank Sizegal. TypeCon_Aire
	Water Sample Submitted? Yes No No

GEOLOGICAL AND WATER SURVEYS WELL RECORD

at depth. Screen: 1 Length:	o. 73324 m_Gravel Formation 10 to 71 ft. Dicom. 5 in. 11 ft. Slot nd Liner Pipe	Sec Twi 25 Rge	McHenry McHenr	y
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)	SHOW CATION IN
63	PVC	0	SE SE	SW, ITTE
		-	Series	1/2, SE NT
above gro	vel 10 ft. below co ound level. Pumping le 2 hours.	evel 30 ft		ng at100
above gro	ound level. Pumping le 2 hours.	evel 30_ft	. when pumpin	DEPTH OF BOTTOM
gpm for	ound level. Pumping le 2 hours. RMATIONS PASSED THRO	evel 30_ft	THICKNESS	DEPTH OF BOTTOM
gpm for	ound level. Pumping le 2 hours. RMATIONS PASSED THRO	evel 30_ft	THICKNESS	DEPTH OF BOTTOM
above groups for	ound level. Pumping le 2 hours. RMATIONS PASSED THRO	evel 30_ft	THICKNESS	DEPTH OF BOTTOM
gpm for	ound level. Pumping le 2 hours. RMATIONS PASSED THRO	evel 30_ft	THICKNESS	DEPTH OF BOTTOM
gpm for	ound level. Pumping le 2 hours. RMATIONS PASSED THRO	evel 30_ft	THICKNESS	DEPTH OF BOTTOM
gpm for	ound level. Pumping le 2 hours. RMATIONS PASSED THRO	evel 30_ft	THICKNESS	DEPTH OF BOTTOM

DRILLER'S LOG WELL NO. 1

Formation	From	To
Black sandy topsoil Brown silty clayey sand Fine to medium brown sand and gravel Fine to coarse gray sand Fine gray sand	0 1 1/2 3 1/2 23 33	1 1/2 3 1/2 23 33 39
Fine gray sand to coarse gravel Brown sandy clay Fine gray sand to coarse gravel	39 51 1/2 56	51 1/2 56 71
Fine gray sand to coarse gravel boulders Light gray gravelly clay	71 90 1/2	90 1/2 93

on page <u>1</u> 80		nd duly recorded in Book 620of Records
		Recorder of Deeds
		Recorder of Deeds
THE CRANTOR I		individually and
as husband and wife	3	
of the	Village of Union	in the County of
McHenry	and State of Illinoi	Sfor and in consideration of
		onsideration xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
•	•	y company, and
		ſ
and State of Pe	nnsylvania	the following described Real Estate:-
	olf of Government Lot 1 of	
Principal W	4, Township 43 North, Randeridian, (excepting there	afrom the West 181 5 feet
of the Sout	h 240 feet thereof.) - Co	ontaining 43 Acres more or
less.		
		ent heretofore granted under
date of Jan	nuary 20, 1958 unto the Pr	rotective Papers, Inc. an
Illinois Co	rporation by First Party,	, permitting said Corporation
to lay sewe	er and drain tile across s	said premises and the right
maintaining	oon said premises for the	purpose of cleaning and
mariicariirig	, same.	
Also subjec	t to any other easements	that there may be of record.
		C (Introduction)
10 3		三大学
1943年1122日 · 425 日本	异醛酶 黑型物質質量	第二次 建
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	नियान है।	

situated in the County of M	cHenry, in the State of Illinois, here!	by releasing and waiving all rights under and
	Exemption Laws of the State of Illin	•
by virtue of the Homestead		
by virtue of the Homestead	The state of the s	SHOW IN COLUMN TWO IS NOT THE REAL PROPERTY.
by virtue of the Homestead	N S S S S S S S S S S S S S S S S S S S	THE REPORT OF THE PARTY OF THE
	A POLICE	DOCUMENTAL DESCRIPTION OF THE PROPERTY OF THE
		DOCUMENTARY OF STREET
	12-1	January A. D., 1935
		77 77
	12-1	Clarence H. Ocock (Seal
	12-1	Clarence H. Ocock (Seal
	12-1	Clarence H. Ocock (Seal
	12-1	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal
	12-1	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal
	13th day of	(Seal (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal County and State aforesaid County aforesaid County and County aforesaid Count
Dated this	I, the undersigned, a Notar	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal County and State aforesaid Clarence H. Ocock and Mercedes
Dated this	I, the undersigned, a Notar DO HEREBY CERTIFY, that J. Ocock, individ	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Clarence H. Ocock and Mercede Utally and as husband and wife
Dated this	I, the undersigned, a Notar DO HEREBY CERTIFY, that J. Ocock, individ spersonally known to me to be a	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Clarence H. Ocock and Mercede Sually and as husband and wife the same persons, whose names are subscribed to
Dated this	I, the undersigned, a Notar DO HEREBY CERTIFY, that J. Ocock, individ personally known to me to be t the foregoing instrument, appe	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock and Mercedes Utally and as husband and wife the same persons whose names are subscribed to saved before me this day in person and acknowledge
Dated this	I, the undersigned, a Notar DO HEREBY CERTIFY, that J. Ocock, individ personally known to me to be t the foregoing instrument, appe that the Ysigned, sealed and	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Clarence H. Ocock and Mercedes ually and as husband and wife the same persons whose names are subscribed to the same persons which is the
Dated this	I, the undersigned, a Notar DO HEREBY CERTIFY, that J. Ocock, individ personally known to me to be t the foregoing instrument, appe that the Ysigned, sealed and	Clarence H. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock (Seal Mercedes J. Ocock and Mercedes Utally and as husband and wife the same persons whose names are subscribed to saved before me this day in person and acknowledge delivered the said instrument as their uses and purposes therein set forth including the received the said purposes therein set forth including the received the said purposes therein set forth including the received the said purposes therein set forth including the received the said purposes therein set forth including the received the said instrument as their set forth including the received the said instrument as their set forth including the received the said instrument as their set forth including the received the said instrument as their set forth including the received the said instrument as their set forth including the received the said instrument as their set for the said country and State aforesaid the said instrument as their set for the said instrument as th
Dated this	I, the undersigned, a Notar DO HEREBY CERTIFY, that J. Ocock, individ personally known to me to be t the foregoing instrument, appe that Line Ysigned, sealed and free and voluntary act, for the	(Seal) (Seal) (Seal) (Seal) (Mercedes J. Ocock (Seal) Mercedes J. Ocock Mercedes J

Gertificate __ 3-822-5



To all to whom these presents Shall Come. Greeting:

TRANSACT BUSINESS IN THIS STATE, duly signed and verified of TECHALLOY COMPANY, INC. incorporated under the laws of the State of PENNSYLVANIA has been filed in the Office of the Secretary of State as provided by The "Business Corporation Act" of Illinois, in force July 13, A.D. 1933.

Now Therefore. I. SIM EDGAR, Secretary of State of the State of Illinois by virtue of the powers vested in me by law, do hereby issue this cortificate and attach thereto a copy of the Application of the aforesaid corporation.

In Testimony Whereof, I hordord my hand and cause to be affixed the Great Seat of the State of Illinois Densatthe City of Springfield this 1st day of July AD 19 81 and of the United State the two hundred and 5th

Jim Edgar.
SECRETARY OF STATE

NEW APPLICATION
Filling Fee \$75.00 plus license (ee and franchise tax AMENDED APPLICATION Filing Fee \$25.00

REINSTATED APPLICATION Filing Fee \$100.00

Form BCA-106 or 114 (FILE IN DUPLICATE) (each copy must have original signatures)

Date Paid License Fee Franchise Tax Filing Fee Penalty Clerk 17

APP	LICATION	FOR

AMENDED
ORIGINAL CERTIFICATE OF AUTHORITY OF FOREIGN CORPORATION
REINSTATED

TECHALLOY COMPANY,		
	INC.	a corporation organized and existing
under and by virtue of the laws of the State of	Pennsylvania	hereby makes application for a
original certificate of author	rity to transact business in the S	tate of Illinois and submits the following
Use only when applicable if the name of the	corporation is not available for u	se in Illinois)
The name which the corporation elects to assur	me for use in this State, pursuant	to Section 104a, is
		(Note 4)
First-Date o' corporation Decembe	r 15 19 53	Duration to det
Second—The advation of the principal office	ce as designated in the charter is	Trappe Road, Rahns, PA
The locations of its principal places of busines		
City, Zip code, County Union, 60180,		
Fourth—The corporation is transacting b state and countries other than Illinois: Fifth—The names of its officers and dire	usiness and qualified under the	s follows:
Fourth—The corporation is transacting b state and countries other than Illinois: Fifth—The names of its officers and dire President David M. Schmid	ectors and their addresses are as	s follows:
Fourth—The corporation is transacting b state and countries other than Illinois: Fifth—The names of its officers and dire	usiness and qualified under the	s follows:
Fourth—The corporation is transacting b state and countries other than Illinois: Fifth—The names of its officers and direction of the president David M. Schmid	ectors and their addresses are as	s follows:
Fourth—The corporation is transacting be state and countries other than Illinois: Fifth—The names of its officers and direction of the countries of the contribution of the countries of the cou	ectors and their addresses are as Trappe Road Trappe Road	Rahns, PA
Fourth—The corporation is transacting be state and countries other than illinois: Fifth—The names of its officers and direction President David M. Schmid Secretary Paul Robinson Director David M. Schmid	ctors and their addresses are as Trappe Road Trappe Road Trappe Road	Rahns, PA Rahns, PA Rahns, PA
Fourth—The corporation is transacting bestate and countries other than Illinois: Fifth—The names of its officers and director David M. Schmid Director David M. Schmid Director David M. Schmid Director David M. Schmid	trappe Road Trappe Road Trappe Road Trappe Road Trappe Road Trappe Road	Rahns, PA Rahns, PA Rahns, PA Rahns, PA
Fourth—The corporation is transacting be state and countries other than illinois: Fifth—The names of its officers and director Paul Robinson Director David M. Schmid	trappe Road Trappe Road Trappe Road Trappe Road Trappe Road Trappe Road	Rahns, PA Rahns, PA Rahns, PA Rahns, PA

Sixth—The purpose or purposes for which it was organized which it proposes to pursue in the transaction of business in this State are: (A general, all inclusive purpose is not permitted. Please make no reference to laws of states other than illinois.)

To develop, manufacture, produce, buy, sell, trade and deal in wire, rod and strip steel, alloys and metal products of all kinds.

eline: i

Seventh—The number of shares which it has authority to issue, itemized by classes, par value of shares, shares without par value, and series if any, within a class is

Class

Series (If any)

Class

Number of Shares

Number of Shares

Par value per share or statement that shares are without par value

Common shares

20,000

\$10. per share

Eighth—The number of its issued shares, Itemized by classes, par value of shares, shares without par value, and series, if any, within a class is: NOTE: ("Issued" shares, include (1) "outstanding" shares, and (2) all shares which have been issued and repurchased or redeemed by the corporation, but not cancelled of record in the home State.)

Class Series (if any) Shares Par value per share or statement that shares are without par value Common shares 20,000 \$10. per share

Ninth—The amount of stated capital and the amount of paid in surplus of the corporation as defined by 'The Business Corporation Act" of Illinois, is:

(Note: If no Paid in Surplus, insert "None")

Paid in Surplus \$ 442,843

Tota: \$ 642,843

The basis for computation of franchise taxes pavable by foreign corporations is set forth in Section 139 of the Eusiness Corporation Act.

Offilt Articles Tenth through Fourteenth if an amended or reinstated application

*Tenth—Give an estimate of the total value of all the property of the corporation for the following year

Eleventh—Give an estimate of the total value of all the property of the corporation for the following year that will be located in lilinois

Twelfth—State the estimated total business of the corporation to be transacted by it everywhere for the following year

Thirteenth—State the estimated annual business of the corporation to be transacted

by it at or from places of business in the State of Illinois

\$ 14,000,000

Fourteenth— INTERROGATORIES:

- (a) is the corporation actually transacting business at the present time in the State where it was organized? Yes.
- (b) From what office will the affairs of the corporation be managed? Union, Illinois and
- (c) To what office or offices will all contracts with the corporation on forwarded for final acceptance? PA.
- (d) At what office or offices will the directors and stockholders mer ling be held? Trappe Rd., Rahns, PA.
- (e) The number of shares of all classes owned by residents of Illinois is: None
- (f) The number of shares of all classes owned by non-residents of Illinois is: 20,000
- (a) Is the corporation transacting ousiness in this State at this time? No
- (h) If your answer is in the affirmative, state the exact date on which it commenced to transact business in Illinois:

*PROPERTY as used in this application shall apply to all property of the corporation, real, personal, tangible, intangible, or mixed without qualifications.

13:17:11

IN WITNESS WH	EREOF, the undersigned corporation	on has caused this report to be executed in its name by its
	President attested by its	Secretary, this day of
May	A.D. 1981	
Place (CORPORATE SEAL) Here	Sivier BC	By Day: M. S. Chm. T. President or Vice President
As authorized officers	s, we declare that this document has	been examined by us and is, to the best of our knowledge and

belief, true, correct and complete.

- NOTE 1. This form may be used in applying for either an original, an amended, or a reinstated certificate of authority. APPLICATIONS MUST BE ACCOMPANIED BY ONE COPY OF THE ARTICLES OF INCORPORATION AND ALL AMENDMENTS DULY AUTHENTICATED BY THE PROPER OFFICER OF THE STATE OR COUNTRY WHEREIN IT IS INCOR-PORATED.
- NOTE 2. Only a certified copy of the articles of incorporation and all amendments thereon is acceptable, a phothopy will not be adequate. The application is not complete until such copy is furnished.
- NOTE 3. This form may also be used for an amended application where the name, duration, or purpose has been changed. It will also be necessary to attach a certified copy of any amendment that changes the name, duration, or purpose. For a name change, please list the New name in Question 1 and, in parentheses, the former name.
- NOTE 4. This statement is applicable only when the corporation must adopt an assumed name in order for its application to be considered. Do not use for an ordinary assumed name application; use separate form BCA 9a/104a. An assumed name shall contain separate and apart from any other word or abbreviation in such name, the word "corporation", "company", "Incorporated", or "limited" or an abbreviation of one of such words. No corporation shall adopt more than one assume , name or do business thereunder and such name shall not be changed more often than annually. The corporation must enclose additional fees totaling \$25 for the assumed name and thereafter pay the prescribed annual assumed name fee.
- NOTE 5. The registered office must be in Illinois and must be a street or road address, not a post office box number. A corporation may not act as its own registered agent but must appoint an individual or a corporation which has as its express purpose to act as registered agent for other corporations.

APPLICATION FOR CERTIFICATE FOREIGN CORPORATION (217) 782-7880 Secretary of State JUL - 1 1981 OF AUTHORITY or 114 JIM EDGAR Form BCA-106 SECRETARY CORPORATION D SPRINGFIELD, NLI TELEPHONE (21

ş.

10 R04 Sentember, 1975

DEEC YTHARRAW

Statutory (ILLINOIS)

to-application for markings

43 acres more or less.

(The Above Space For Recorder's Use Only)

Exempt under provisions of paragraph (c) Section 4 of the Real Estate Transfer Act. THE GRANTOR TECHNILOY, ILLINOIS, INC. August 12, 1982
a corporation created and existing under and by virtue of the laws of the State of Scheibe, Buyer's Rep.
and duly actionized to transact to smess in the trace of
the sum of One DOLLARS.
(\$1.00)
in hand paid, and pursuant to authority given by the Board of Directors of said corporation CONVEYS and WARRANTS to TECHALLOY COMPANY, INC., a Pennsylvania Corporation having an address at (NAME AND ADDRESS OF GRANTEE)
Trappe Road, Rahns, Pennsylvania 19426
the following described Real Estate situated in the County of McHenry
in the State of Illinois, to wit:
The East Half of Government Lot 1 of the Northeast Quarter of Section 4,
Township 43 North, Range 6 East of the Third Principal Meridian, (excepting

Subject to the 1959 taxes and easements heretofore granted under date of January 20, 1958 unto the Protective Papers, Inc., an Illinois Corporation by First Party, permitting said Corporation to lay sewer and drain tile across said premises and the right to enter upon said premises for the purpose of cleaning and maintaining same.

Also subject to any other easements that there may be of record.
BEING the same premises heretofore conveyed by said Techalloy Company, Inc., to said Techalloy, Illinois, Inc., by Warranty Deed dated November 12,1965, and filed for record as Document No. 451352 in the Recorder's Office of McHenry County, Illinois.

SEE RIDER ATTACHED HERETO AND MADE A PART HEREOF.

839789

RIDER ATTACHED TO AND MADE
A PART OF DEED BETWEEN TECHALLOY,
ILLINOIS, INC., AND TECHALLOY COMPANY, INC.
DATED JULY 19, 1982.

THE GRANTEE HEREIN, being the sole shareholder of the Said TECHALLOY, ILLINOIS, INC., a Delaware Corporation, Grantor herein, and holding all of the issued and outstanding shares of the Grantor, on July 1, 1981 adopted a resolution calling for a Plan of Merger of the Grantor, pursuant to Article IX of the Pennsylvania Business Corporation Law and Subchapter IX of the Delaware General Corporation Law and the cancellation of all of the issued and outstanding shares of the Grantor.

REVENUE STAMPS HERE

In Witness Whereof, said Grantor has caused its corpor de seal to be hereto alloyed, and has caused its name to be somed to these presents by its ... President and attested by its 19th July ___Secretary, this ___ _ dies est_ TECHALLOY, ILLINOIS, INC. PRAME OF CLUSTISEATIONS IMPRESS CORPORATE SEAL David M. School HERE Pennsylvania Paul Robinson State of Montgomery w. I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY, that David M. Schmid. Techalloy. personally known to me to be the. President of the Crantor, Illinois, Inc. corporation, and Paul Robinson, _personally known to me to be Secretary of said corporation, and personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that as IMPRESS : __President and_____ _Secretary, they signed NOTARIAL SEAL and delivered the said instrument as_____ _____President and_ HERE . Secretary of said corporation, and caused the corporate seal of said corporation to be affixed thereto, pursuant to authority, given by the Board of Directors of said corporation as their free and voluntary act, and as the free and voluntary act and deed of said corporation, for the uses and purposes therein set forth. Given under my hand and official seal, this Commission expires October This instrument was prepared by Frederick A. Scheibe. Esq., (NAMERIANDUADORERSCHOOL OF NOLDED!

RECORDER'S OFFICE BOX NO. .

ADDRESS OF PROPERTY Jefferson and Olson Roads Union Village, Ill. 60180 THE ABOVE ADDRESS IS FOR STATISTICAL PURPOSES ONLY AND IS NOT A PART OF THIS DEED. SEND SUBSEQUENT TAX PILLS TO: Techallay Company, Inc. Trappo Road, Rahns, PA 19426



DATE: March 11, 1991

TO: Division File

REFERENCE NUMBER 5

FROM:

Hank Konzelmann

SUBJECT: 1110900003 - McHenry Co. Union/Techalloy Company Superfund/Tech. Repts.

On March 6, 1991, a site recon of the Techalloy facility in Union was conducted. Prior to the recon, visits at the ASCS, SCS, and county tax assessors offices in Woodstock were made in order to collect information about the site.

The following was determined through a title search:
The following are divisions of Techalloy based in Union:

Techalloy CA (California), Inc.

Techalloy Maryland, Inc.

Techalloy Co. Inc, Atlanta Plant

Techalloy Perris

Techalloy Strip Inc.

Techalloy TX (Texas), Inc.

Techalloy western Inc.

The following company names are listed at the Union address:

Techalloy Company, Inc

Techalloy Illinois, Inc

Techalloy MD, Inc.

The following deed transactions have taken place:

January 13, 1960 - warranty deed - (b) (6) sold portion of East 1/2 of Government Lot 1 NE 1/4 section 4, T43N, R6E to Techalloy Company, Inc.

July 5, 1981 - Application of Certification to conduct business - State of Illinois

July 19, 1982 - warranty deed - Techalloy Illinois, Inc. sold the property to Techalloy Company, Inc. (not a typo)

A site drive-by was then conducted and photographs were taken. It was noted that Evergreen Park Elementary School exists adjacent to the property in a residential area to the south

Old monitoring wells were also observed next to a property located at 7506 Madison, and another was seen at the end of Madison street.

After attempts to examine and photograph a long pit on the west side of the property were unsuccessful, I contacted Dick

Piwonka and Rick Perlick (General Plant Manager), who allowed me access to the pit area. The pit was estimated to be 20 feet across, four feet deep, and 225 feet long. I was told by the Techalloy representative that they would communicate any actual dimensions that they might have.

I left the site and area at 5:30 pm.



1110900003 - McHenry Union/Techniloy Superfund/Tech Repts

Company, Inc.

84 Business Park Drive, Armonk, NY 10504 Phone: 914-273-4500

none: 914-273-4500

FAX: 914-273-4508

May 24, 1990

Mr. Henry J. Konzelmann

REFERENCE NUMBER 6

Project Manager

Remedial Project Mgm't Section Div. of Land Pollution Control

2200 Churchill Road

P.O. Box 19276

Springfield, IL 62794-9276

Subject: Analytical test results from monitoring wells at

Techalloy Company, Inc. - Union, Illinois plant.

Dear Mr. Konzelmann:

It was a pleasure meeting you and Dr. Black on Tuesday, May 22, concerning the above subject. Enclosed for your review is the report submitted to Techalloy by Weston Consultants outlining the method of testing and the subject test results.

If you have any questions, please feel free to contact Mr. John W. Thorsen at Weston or myself at the Armonk, N.Y. office. Again, thank you for your cooperation in this matter and we look forward to working with you in resolving this problem on a prompt and timely basis.

Very truly yours,

Henry Lopes Vice President

Technical Development

HL:ic Enclosure

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Dr. J. Stanley Black - Illinois E.P.A.

Mr. Philippe Maitrepierre - Techalloy, Armonk, NY

Mr. Dick Piwonka - Techalloy, Union plant Mr. John W. Thorsen - Weston Consultants RECEIVED

MAY 2 5 1990

IEPA/DLPC

MANUFACTURERS OF TECHNICALLY CONTROLLED WIRE, FLAT/SHAPED WIRE, ROD, STRIP, WELDING WIRE AND ELECTRODES
IN NICKEL • NICKEL BASED ALLOYS • STAINLESS STEELS • GLASS SEALING ALLOYS



100 CORPORATE NORTH, SUITE 101 ROUTE 22 AND LAKESIDE DRIVE BANNOCKBURN, ILLINOIS 60015 ... (312) 295-6020

16 May 1990

Work Order No.:

1989-06-02

Mr. Gunnar Gillberg Techalloy Industries 84 Business Park Drive Armonk, New York 10504

Subject: Analytical Results from Property Boundary

Monitoring Wells

Techalloy Industries, Union, Illinois

Dear Mr. Gillberg:

This letter documents the installation and sampling by Roy F. Weston, Inc. (WESTON) of two groundwater monitoring wells and four sand points along the western and northern boundaries of the Techalloy property. The purpose of the wells and sand points was to determine if contaminants were present at the property boundary and to determine the potential for off-site migration of contaminants. Installation and sampling of the two monitoring wells was outlined in a proposal to Techalloy dated 6 March 1990. Techalloy approved the proposal and subsequently requested that the four sand points be added to the scope of work.

All drilling activities were performed under the supervision of WESTON by Layne-Western, Inc. of Aurora, Illinois, during the period 26 March through 4 April. The shallow well and the four sand points were installed near the top of the shallow sand aquifer at depths of 37.5 feet and 25 feet, respectively. The deep well was installed at the base of the aquifer immediately above a clay confining layer at a depth of 90 feet. The well boreholes were advanced using 4.25-inch inner diameter hollow stem augers and the wells were constructed as the augers were withdrawn. monitoring wells were constructed of 2-inch diameter stainless steel casing and screen (10-foot-screen length), while the sand points were constructed of 2-inch diameter galvanized steel casing and stainless steel screen (3-foot screen length). Following installation, the wells and sand points were developed by removing water with the nitrogen-lift method. A boring log for the deep well (MW-5D) is included with this report as Attachment A.

The new monitoring wells and sand points were surveyed for groundwater elevations on 16 April 1990. The groundwater elevations indicate that groundwater is moving in a northwesterly



Mr. Gunnar Gillberg

-2-

16 May 1990

direction in response to a hydraulic gradient of 0.0015 feet/foot (Figure 1).

Groundwater samples were collected from the six newly installed monitoring wells and sand points and one Phase I well (MW-2) on 5 April 1990. All samples were analyzed for metals and volatile organic compounds (VOCs) by Gulf Coast Laboratories of University Park, Illinois. The sample results (Tables 1 and 2) indicate that VOCs are present in groundwater at all of the well locations The compounds 1,1,1-trichloroethane (1,1,1-TCA), sampled. trichloroethene (TCE), tetrachloroethene (PCE), and 1.1dichloroethene (1,1-DCE) are the VOCs present at the highest levels. Well numbers MW-7, MW-8, and MW-5 represent the locations where VOCs were detected at the highest concentrations (up to 15,000 parts per billion for individual compounds). The levels of TCE and 1,1,1-TCA detected in samples from wells MW-2, MW-5, MW-5D, MW-7, and MW-8 exceed -- generally by one or more orders of magnitude -- the existing drinking water standards established by the United States Environmental Protection Agency (U.S. EPA) under the Safe Drinking Water Act (SDWA). The level of PCE detected in the samples from MW-2, MW-5, MW-6, MW-7, and MW-8 exceed the proposed U.S. EPA standard for that compound. Metals analyses detected arsenic and lead at levels below existing U.S. EPA drinking water standards in the sample from MW-3. There were no other metals detections in the other groundwater samples analyzed. The laboratory report is provided as Attachment B to this letter.

The results discussed above indicate that groundwater along the northwestern property boundary is contaminated with VOCs at levels above drinking water standards, and that contaminants are migrating off site in a northwesterly direction.

Mr. Gunnar Gillberg

-3-

16 May 1990

If you have any questions regarding the contents of this letter, please call us at (708) 295-6020.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.

Section Manager

John W. Thorsen, P.E.

Vice President

CJS:JWT:amp



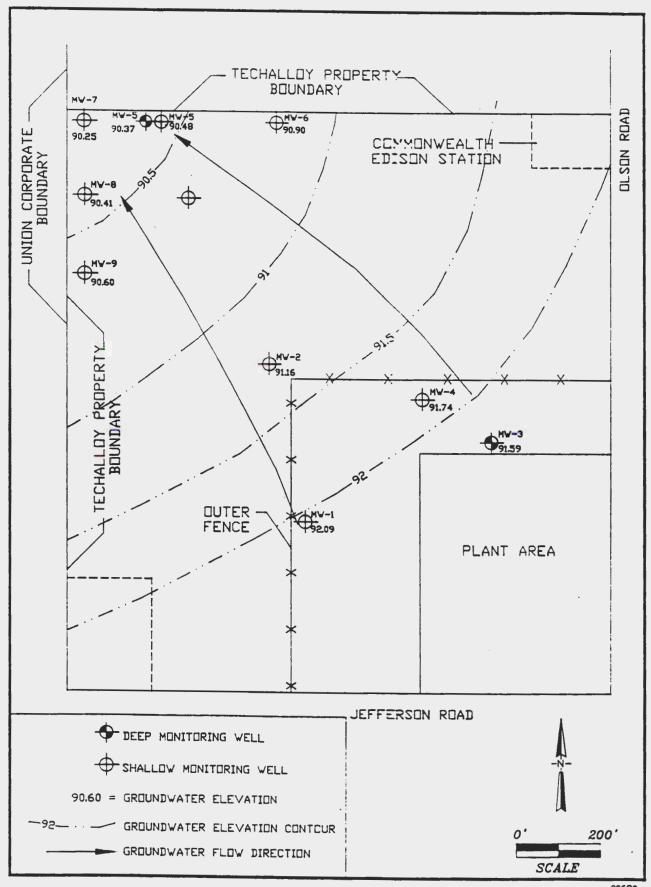


TABLE 1
VOLATILE ORGANIC COMPOUNDS DETECTED
TECHALLOY, UNION, IL

WELL NUMBER	MW-5	MW-5D	MW-6	MW-6	HW-7	8-WM	HW-9	MM-5	FIELD BLANK	MCL
SAMPLE ID	RFW-1	RFW-2	RFW-3	RFW-3 Dup	RFW-4	RFW-5	RFW-6	RFW-7	EB-2	••
*******************					========	********	31223111			
DATE COLLECTED	4/5/90	4/5/90	4/5/90	4/5/90	4/5/90	4/5/90	4/5/90	4/5/90	4/5/90	••
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	u g/L	ug/L	u g/L	u g/L	ug/L
Methylene Chloride	5	4 J	5	5	24	5	BDL	BDL	BDL	NA
Acetone	29	13	31	BDL	44	BDL	25	26	35	NA
1,1-Dichloroethene	18	5	BDL	BDL	720	54	BDL	100	BDL	7
1,1-Dichloroethane	4 1	6	BDL	8DL	290	110	BDL	86	BDL	NA
1,2-Dichloroethene(total)	. 7	2 J	BDL	BOL	77	18	80L	30	BDL	NA
Chloroform	BDL	BDL	BDL	BOL	4 J	BDL	BDL	BDL	BDL	NA
1,2-Dichloroethane	BDL	BDL	8DL	BDL	11	BDL	BDL	BOL	BDL	5
1,1,1-Trichloroethane	1100	300	14	12	15000	1500	18	3000	· 7	200
Trichloroethene	27	300	80L	BDL	520	130	BDL	99	BDL	5
1,1,2-Trichloroethane	BOL	BDL	BOL	BDL	35	BDL	BOL	6	BDL	
Benzene	BDL	BDL	80L	BDL	BOL	BDL	BDL	8DL	8DL	
4-Methyl-2-Pentanone	BDL	BOL	BOL	36	80L	8DL	BDL	16	8DL	NA
Tetrachloroethene	450	8DL	52	48	570	530	3 J	340	BDL	5

BDL - Not Detected

J - Estimated value below method detection limit.

MCL - Maximum Contaminant Level

NA - Not Avaiible

TABLE 2 INORGANICS DETECTED TECHALLOY, UNION, IL

WELL NUMBER	MW-6	MM-6
SAMPLE ID	RFW-3	RFW-3 Dup
DATE COLLECTED	4/5/90	4/5/90
UNITS	mg/L	mg/L
Arsenic, Soluble	0.0094 0.018	0.0046

ATTACHMENT A BORING LOG

	_		ند د	iC D	RIL		OG	PR	OJECT	NAM	AND LOCATION	PAGE NO. HOLE NO.
TA	RT		FINI		DRILL				11	10111	Techalloy, Union, IL METHOD BOREHOLE DIAMETER WELL DIAMETER	1 of 3 MW-5D
3/	27	/90	1	9/90			e-W		+			TOTAL DEPTH
LOG	GER	70	13/2	2/30	TOP C	of CA	SING	ELEV		GROUN	5 I.D. HSA 8" 2" SST D ELEVATION DEPTH/ELEVATION GROUNDWATER - DATE HEA	90.00'
,	V.1	. N	liem:	ann								JUNED
	_	_			ngrad	ient	(No	rth) pr	oper	6.25'/'	
:	H	:				100		ž	-		·	Ι
SAMPLE NO.	SAMPLE TYPE	RECOVERY	SAMPLE	ELEV	DEPTH	GRAPHIC L	MELL	CONSTRUCTI	CLASS- IFICATION	SAMPLE	DESCRIPTION	NOTES
01	ss	14	4 6 8		1 - 2 - 3 - 4 - 5 - 6 - 7 -		₽		sm sp		SAND: very fine to medium, poorly sorted; some Silt; little fine gravel; medium dense; brown; moist.	•
02	SS	18	10 11 10		8 - 9 - 10 -				sm sp sw		SAND & GRAVEL: medium to coarse Sand, poorly sorted; fine to medium Gravel; medium dense;	
03	ss	18	10 11 11		11 - 12 - 13 - 14 - 15 - 16 -				sw		brown; wet. As above, fine to coarse Sand.	
04	SS	12	11 15 15		18 - 19 - 20 - 21 -				sp	•	SAND: fine to medium; well sorted; dense; brown; wet.	
05	ss	0	•		23 - 24 - 25 - 26 -						No recovery.	
06	SS		18 34 82/4"		27 - 28 - 29 - 30 - 31 -				sw		SAND & GRAVEL: very fine to coarse Sand, very poorly sorted; fine Gravel; extremely dense; brown; wet.	
07	SS	12	6 14 35		32 - 33 - 34 - 35 -				sp ml	38.11 38.88	SAND: very fine to medium, poorly sorted; some fine Gravel; dense; brown; wet. Bottom 2": Silt with trace fine Sand.)
08	SS	18			36 - 37 - 38 -				mi		SILT: very well sorted; some very fine Sand; brown; wet.	
09	SS	14	20 26		39 -	\$			sw		SAND & GRAVEL: very fine to coarse Sand, very poorly	
		0158	SPOC	ST	= SHE	BY	UBE	- ^	OH = 1		sorted: fine to medium Gravel: very dense; brown: Techalloy	PAGE NO. HOLE NO.
5	= D	ENN	SON	CT.	= CORE	LINGS	BA	=80	CKET	AUG	SAMPLER L'ECTATION Union, IL	1 of 3 MW-51

1

,

ECT	NAME	AND LOCATION	PAGE NO. HOLE NO.		IPAGE NO. IH	OLE NO.
		Techalloy, Union, IL	2 of 3 MW-5D	IL		W=
IFICATION	SAMPLE	DESCRIPTION	NOTES	ION	NOTE	s
		wet.				
				l; trace fine Gravel;		
s p		SAND: fine to coarse, poorly sorted; little fine Gravel; pounding rock; brown; wet.				
				:		
ep.		As above: very fine to fine; well sorted; pounding rock in slough material.				
5 W		SAND & GRAVEL: very fine to coarse Sand, very poorly sorted; fine to medium Gravel; dense; brown; wet.				
sm gm		SAND & SILT: very fine to medium Sand, poorly sorted; some fine to medium Gravel; little Clay; gray to brown; wet.	Driller notes change			
NTIN	UOUS AUG.	SAMPLER Techalloy Union, IL	in drill pressure at 82 feet (Clay layer). PAGE NO. HOLE NO. 2 of 3 MW-5D	halloy	PAGE NO.	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: RFWT mw-5 Sha Yow Project # 1989-06-01-0000

Lab ID: 9004G807-001 Sample Date: 04/05/90 Date Received: 04/06/90

	Parameters	Result	Units	Reporting Limit
	Arsenic, Soluble	0.0040 u	mg/L	0.0040
	Cadmium, Soluble	0.0040 u	mg/L	0.0040
	Chromium, Soluble	0.020 u	mg/L	0.020
	Copper, Soluble	0.020 u	mg/L	0.020
	Mercury, Soluble	0.00020 u	mg/L	0.00020
	Lead, Soluble	0.0020 u	mg/L	0.0020
•				
		Read READ		
The second				
•				
			1 1 1 1 - 6 1	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: REW1 MW - 5 ≤ 5~ 6~ 00 Project # 1989-06-01-0000

Lab ID: 9004G807-001 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
Chloromethane	8DL	10	U	
Bromomethane	BDL	10	U	
Vinyl Chloride	BDL	10	U	
Chloroethane	BDL	10	U	
Methylene Chloride .	5	. 5		
Acetone	29	10		
Carbon Disulfide	BDL	5	U	
1,1-Dichloroethene	18	5		
1,1-Dichloroethane	4	5	J	
1,2-Dichloroethene (total)	7	5		
Chloroform	BDL	5	U	
1,2-Dichloroethane	BDL	5	U	
2-Butanone	BDL	10	U	
1,1,1-Trichloroethane	E	5		
Carbon Tetrachloride	BDL	- 5	U	
Vinyl Acetate	BDL	10	U	
Bromodichloromethane	BDL	5	U	
		· · · · · · · · · · · · · · · · · · ·		



WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-750

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: <u>REW1 MW-5</u> Shallow Project # 1989-06-01-0000

Lab ID: 9004G807-001 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile	Compound	Result	Detection Limit	Flag	
1,2-Dichlorop	ropane	BDL	5	U	
cis-1,3-Dichl	oropropene	BDL	5	U	
Trichloroethe	ne	27	5		
Dibromochloro	methane	BDL	5	U	
l,1,2-Trichlo	roethane	BDL	5	U	
Benzene		BDL	- 5	U	
Trans-1,3-Dic	hloropropene	BDL	5	U	
Bromoform		BDL	5	U	
4-Methyl-2-pe	ntanone	BDL	10	U	
2-Hexanone	***	BDL	10	U	
Tetrachloroet	hene	Ε	5		
1,1,2,2-Tetra	chloroethane	BDL	5	U	
Toluene		BDL	5	U	
Chlorobenzene		BDL	5	U	
Ethylbenzene		BDL	5	U	
Styrene		BDL	5	Ŭ	
Xylene (total)	BDL	5	U ·	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: AFWI MW-5 shallow

Project # 1989-06-01-0000 Lab ID: 9004G807-001

Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Tentatively Identified Compounds						
No Volatile Compounds greater than 10% of the nearest						
internal standard were tentatively identified by mass						
spectral library search. This is exclusive of any target						
compounds, surrogates or internal standards.						
•						
·						
, ·						



WESTON-GULF COAST LABORATORIES, INC.

2417 Bond St., University Park, Illinois 60486

Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RENT MW-5 Shallow Project # 1989-06-01-0000

Lab ID: 9004G807-001 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag
1,1,1-Trichloroethane	Ε	25	·
Tetrachloroethene	450	25	
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: AFWI MW-5 Shallow

Project # 1989-06-01-0000 Lab ID: 9004G807-001 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

	Volatile Compound		Result	Detection Limit	Flag
1,1,	,1-Trichloroethane		1100	50	
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: RFWZ MW-5 Deep Project # 1989-06-01-0000 Lab ID: 9004G807-002

Sample Date: 04/05/90 Date Received: 04/06/90

	Parameters	Result	Units	Reporting Limit
	Arsenic, Soluble	0.0040 u	mg/L	0.0040
	Cadmium, Soluble	0.0040 u	mg/L	0.0040
	Chromium, Soluble	0.020 u	mg/L	0.020
	Copper, Soluble	0.020 u	mg/L	0.020
	Mercury, Soluble	0.00020 u	mg/L	0.00020
	Lead, Soluble	0.0020 u	mg/L	0.0020
1				



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: REW2 MW-5 Deep Project # 1989-06-01-0000

Project # 1989-06-01-0000 Lab ID: 9004G807-002

Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
Chloromethane	BDL	10	U	
Bromomethane	BDL	10	U	
Vinyl Chloride	BDL	10	U	
Chloroethane	BDL	10	U	
Methylene Chloride	4	5	J	
Acetone	13	10	•	
Carbon Disulfide	BDL	5	U	
1,1-Dichloroethene	5	5		
 1,1-Dichloroethane	6	5		
1,2-Dichloroethene (total)	2	5	J	-
 Chloroform	BDL	5	U	
1,2-Dichloroethane	BOL	5	U	
2-Butanone	BOL	10	U	
1,1,1-Trichloroethane	E	5		
Carbon Tetrachloride	BDL	. 5	U	
Vinyl Acetate	BDL	10	U	
Bromodichloromethane	BDL	5	U	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: REWZ MW-5 Deep

Project # 1989-06-01-0000 Lab ID: 9004G807-002 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
1,2-Dichloropropane	BDL	5	Ŋ	
cis-1,3-Dichloropropene	BDL	5	U	
Trichloroethene	E	5		
Dibromochloromethane	8DL	5	U	
1,1,2-Trichloroethane	BDL	5	U	
Benzene	BDL	5	U	
Trans-1,3-Dichloropropene	BDL	5	U	
Bromoform	BDL	5	U	
4-Methyl-2-pentanone	BDL	10	U	
2-Hexanone	BDL	10	U	
Tetrachloroethene	BDL	5	U	
1,1,2,2-Tetrachloroethane	BDL	5	U	
Toluene	BDL	5	U	
Chlorobenzene	BDL	5	U	
Ethylbenzene	BDL	. 5	U	
Styrene	BDL	5	U	
Xylene (total)	BDL	5	U	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: AFWZ MW-5 Deep

Project # 1989-06-01-0000 Lab ID: 9004G807-002 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

 Tentatively Identified Compounds
No Volatile Compounds greater than 10% of the nearest
internal standard were tentatively identified by mass
spectral library search. This is exclusive of any target
compounds, surrogates or internal standards.



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFHZ MW-5 Deep

Project # 1989-06-01-0000 Lab ID: 9004G807-002 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit Fla	ag
1,1,1-Trichloroethane	300	10	
Trichloroethene	300	10	
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: AFWS MW-C

Project # 1989-06-01-0000 Lab ID: 9004G807-003 Sample Date: 04/05/90 Date Received: 04/06/90

	Parameters	Result	Units	Reporting Limit
	Arsenic, Soluble	0.0094	mg/L	0.0040
	Cadmium, Soluble	0.0040 u	mg/L	0.0040
	Chromium, Soluble	0.020 u	mg/L	0.020
	Copper, Soluble	0.020 u	mg/L	0.020
	Mercury, Soluble	0.00020 u	mg/L	0.00020
	Lead, Soluble	0.018	mg/L	0.0020
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFW3 MW-6

Project # 1989-06-01-0000 Lab ID: 9004G807-003 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

	Volatile Compound	Result	Detection Limit	Flag	
- 111	Chloromethane	BDL	10	U	
	Bromomethane	BDL	10	U	
	Vinyl Chloride	BDL	10	U	
	Chloroethane	BDL	10	U	
	Methylene Chloride	5	5		
	Acetone	31	10		
	Carbon Disulfide	BDL	5	U	
	1,1-Dichloroethene	BDL	5	U	
	1,1-Dichloroethane	BDL	5 ·	U	
	1,2-Dichloroethene (total)	BDL	5	U	
	Chloroform	BDL	5	U	
	1,2-Dichloroethane	BDL	5	U	
	2-Butanone	BDL	10	· U	
	1,1,1-Trichloroethane	14	5		
	Carbon Tetrachloride	BDL	5	U	
	Vinyl Acetate	BDL	10	U	
	Bromodichloromethane	BDL	. 5	U	
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: AFW3 MW-6

Project # 1989-06-01-0000 Lab ID: 9004G807-003 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Decula	Detection		
Volatile Compound	Result	Limit	Flag	
1,2-Dichloropropane	BDL	5	U .	
cis-1,3-Dichloropropene	BDL	5	U	
Trichloroethene	BDL	5	U	
Dibromochloromethane	BDL	5	U	
1,1,2-Trichloroethane	BDL	5	U	
Benzene	BDL	5	U	
Trans-1,3-Dichloropropene	BDL	5	U	
Bromoform	BDL	5	U	
4-Methyl-2-pentanone	BDL	10	U	
2-Hexanone	BDL	10	U	
Tetrachloroethene	52	5		
1,1,2,2-Tetrachloroethane	BDL	5	U	
Toluene	BDL	. 5	U	
Chlorobenzene	BDL	. 5	U	
Ethylbenzene	BDL	. 5	U	
Styrene	BDL	5	U	
Xylene (total)	BDL	5	U	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFW3 MW-6

Project # 1989-06-01-0000 Lab ID: 9004G807-003 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Tentatively Identified Compounds
No Volatile Compounds greater than 10% of the nearest
internal standard were tentatively identified by mass
spectral library search. This is exclusive of any target
compounds, surrogates or internal standards.
• •



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

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RE: -RFW3 Duplicate

Project # 1989-06-01-0000 Lab ID: 9004G807-004 Sample Date: 04/05/90 Date Received: 04/06/90

 Parameters	Result	Units	Reporting Limit
 Arsenic, Soluble	0.0046	mg/L	0.0040
Cadmium, Soluble	0.0040 u	mg/L	0.0040
 Chromium, Soluble	0.020 u	mg/L	0.020
Copper, Soluble	0.020 u	mg/L	0.020
Mercury, Soluble	0.00020 u	mg/L	0.00020
Lead, Soluble	0.0070	mg/L	0.0020
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

MW-6

RE: RFW3 Duplicate

Project # 1989-06-01-0000 Lab ID: 9004G807-004 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
Chloromethane	BDL	10	U	
Bromomethane	BDL	10	U	
Vinyl Chloride	BDL	10	U	
Chloroethane	BDL	10	U	
Methylene Chloride	5	5		
Acetone	BDL ·	10	U	
Carbon Disulfide	BDL	5	U	
1,1-Dichloroethene	BDL	5	U	
1,1-Dichloroethane	BDL	5	U .	
1,2-Dichloroethene (total)	BDL	5	U	
Chloroform	BDL	5	U	
1,2-Dichloroethane	BDL	5	U	
2-Butanone	BDL	10	U	
1,1,1-Trichloroethane	12	5		
Carbon Tetrachloride	BDL	. 5	U	
Vinyl Acetate	BDL	10	U	
Bromodichloromethane	BDL	5	U	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

mu-6

RE: RFWS Duplicate

Project # 1989-06-01-0000 Lab ID: 9004G807-004 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	V
Trichloroethene	BDL	5	V
Dibromochloromethane	BDL	5	V
1,1,2-Trichloroethane	BDL	5	U
Benzene ,	BDL	5	V
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
4-Methyl-2-pentanone	36	10	
2-Hexanone	BDL	10	U
Tetrachloroethene	48	5	
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	. 5	U
Styrene	BDL	5	U
Xylene (total)	BDL	5	U



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFWS Duplicate

Project # 1989-06-01-0000 Lab ID: 9004G807-004

Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Tentatively Identified Compounds
No Volatile Compounds greater than 10% of the nearest
internal standard were tentatively identified by mass
spectral library search. This is exclusive of any target
compounds, surrogates or internal standards.



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: -RPW4 MW-7

Project # 1989-06-01-0000 Lab ID: 9004G807-005 Sample Date: 04/05/90 Date Received: 04/06/90

Parameters	Result	Units	Reporting Limit
Arsenic, Soluble	0.0040 u	mg/L	0.0040
Cadmium, Soluble	0.0040 u	mg/L	0.0040
Chromium, Soluble	0.020 u	mg/L	0.020
Copper, Soluble	0.020 u	mg/L	0.020
Mercury, Soluble	0.00020 u	mg/L	0.00020
Lead, Soluble	0.0020 u	mg/L	0.0020
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-753.

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFW4 MW-7

Project # 1989-06-01-0000 Lab ID: 9004G807-005 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

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Volatile Compound	Result	Detection Limit	Flag		
Chloromethane	BDL	10	U		
Bromomethane	BDL	10	U		
Vinyl Chloride	BDL	10	U		
Chloroethane	BDL	10	U		
Methylene Chloride	24	5			
Acetone	44	10			
Carbon Disulfide	BDL	5	U		
1,1-Dichloroethene	Ε	5			
1,1-Dichloroethane	Ε	5			
1,2-Dichloroethene (total)	77	5			
Chloroform	4	5	J		
1,2-Dichloroethane	11	5			
2-Butanone	BDL	10	U		
1,1,1-Trichloroethane	Ε	5			
Carbon Tetrachloride	BDL	. 5	U		
Vinyl Acetate	BDL	10	U		
Bromodichloromethane	BDL	5	U		



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

.. RE: RFH4 MW-7

Project # 1989-06-01-0000 Lab ID: 9004G807-005 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

	Volatile Compound	Result	Detection Limit	Flag	
	1,2-Dichloropropane	BDL	5	U	
	cis-1,3-Dichloropropene	BDL	5	U	
	Trichloroethene	Ε	5		
•	Dibromochloromethane	BDL	5	U	
	1,1,2-Trichloroethane	35	5		•
	Benzene	BDL	5	U	
	Trans-1,3-Dichloropropene	BDL	5	U	
	Bromoform	BDL	5	U	
	4-Methyl-2-pentanone	BDL	10	U	
	2-Hexanone	BDL	10	U	
	Tetrachloroethene	Ε	5		
	1,1,2,2-Tetrachloroethane	BDL	5	U	
	Toluene	BDL	5	U	
0(45)10 The 4 (2) S1(24) (60)	Chlorobenzene	BDL	5	U	
	Ethylbenzene	BDL	5	U	
	Styrene	BDL	5	U	
	Xylene (total)	BDL ·	5	U	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFW4 MW-7

Project # 1989-06-01-0000 Lab ID: 9004G807-005 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Tentatively Identified Compounds
No Volatile Compounds greater than 10% of the nearest
internal standard were tentatively identified by mass
spectral library search. This is exclusive of any target
compounds, surrogates or internal standards.
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFH4 MW-7

Project # 1989-06-01-0000 Lab ID: 9004G807-005 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit Flag	
1,1-Dichloroethene	720	25	
1,1-Dichloroethane	290	25	
1,1,1-Trichloroethane	Ε	25	
Trichloroethene	520	25	
Tetrachloroethene	570	25	
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WESTON-GULF COAST LABORATORIES, INC.

2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: REW4-MW-7

Project # 1989-06-01-0000 Lab ID: 9004G807-005 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compo	und	Result	Detection Limit	Flag
 1,1,1-Trichloroetha	ne	15000	500	
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: RFN5 NW-8

Project # 1989-06-01-0000 Lab ID: 9004G807-006 Sample Date: 04/05/90 Date Received: 04/06/90

	Parameters	Result	Units	Reporting Limit
	Arsenic, Soluble	0.0 040 u	mg/L	0.0040
	Cadmium, Soluble	0.0040 u	mg/L	0.0040
	Chromium, Soluble	0.020 u	mg/L	0.020
	Copper, Soluble	0.020 u	mg/L	0.020
	Mercury, Soluble	0.00020 u	mg/L	0.00020
	Lead, Soluble	0.0020 u	mg/L	0.0020
		•		
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: REWS MW-9

Project # 1989-06-01-0000 Lab ID: 9004G807-006 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
Chloromethane	BOL	10	υ	
Bromomethane	BDL	10	U	
Vinyl Chloride	BDL	10	U	
Chloroethane	BDL	10	U	
Methylene Chloride	5	5		
Acetone	BDL	. 10	U	
Carbon Disulfide	BDL	5	U	
1,1-Dichloroethene	54	5		
1,1-Dichloroethane	110	5		
1,2-Dichloroethene (total)	18	5		
Chloroform	BDL	5	U	157
1,2-Dichloroethane	BDL	5	U	
2-Butanone	BDL	10	U	<u> </u>
1,1,1-Trichloroethane	Ε	5		
Carbon Tetrachloride	BDL	5	U	
Vinyl Acetate	BDL	10	U	
Bromodichloromethane	BDL	5	U	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: -RFW5 MW -B

Project # 1989-06-01-0000 Lab ID: 9004G807-006 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
1,2-Dichloropropane	BDL	5	U	
cis-1,3-Dichloropropene	BDL	5	U	
Trichloroethene	130	5		
Dibromochloromethane	BDL	5	U	
1,1,2-Trichloroethane	BDL	.5	U	
Benzene	BDL	.5	U	
Trans-1,3-Dichloropropene	BDL	5	U	
Bromoform	BDL	5	U	
4-Methyl-2-pentanone	BDL	10	U	-
2-Hexanone	BDL	10	U	
Tetrachloroethene	Ε	5		
1,1,2,2-Tetrachloroethane	BDL	. 5	U	
Toluene	BDL	5	U	
Chlorobenzene	BDL	5	U	
Ethylbenzene	BDL	. 5	U	.•
Styrene	BDL	5	U	
Xylene (total)	BDL	5	U	
·				



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFW5 MW-S

Project # 1989-06-01-0000 Lab ID: 9004G807-006 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Tentatively Identified Compounds
No Volatile Compounds greater than 10% of the nearest
internal standard were tentatively identified by mass
spectral library search. This is exclusive of any target
compounds, surrogates or internal standards.
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFW5 MW- 2 ...

Project # 1989-06-01-0000 Lab ID: 9004G807-006 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

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Volatile Compound	Result	Detection Limit Fl	ag
1,1,1-Trichloroethane	1500	50	
Tetrachloroethene	530	50	
•			
		-	



ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: RFWG MW-9

Project # 1989-06-01-0000 Lab ID: 9004G807-007 Sample Date: 04/05/90 Date Received: 04/06/90

	Parameters	Result	Units	Reporting Limit
	Arsenic, Soluble	0.0040 u	mg/L	0.0040
	Cadmium, Soluble	0.0040 u	mg/L	0.0040
	Chromium, Soluble	0.020 u	mg/L	0.020
	Copper, Soluble	0,0 <u>2</u> 0 u	mg/L	0.020
	Mercury, Soluble	0.00020 u	mg/L	0.00020
	Lead, Soluble	0.0020 u	mg/L	0.0020
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ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFHG MW-9

Project # 1989-06-01-0000 Lab ID: 9004G807-007 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

	Volatile Compound	Result	Detection Limit	Flag
	Chloromethane	BDL	10	U
	Bromomethane	BDL	10	U
	Vinyl Chloride	BDL	10	U
	Chloroethane	BDL	10	U
	Methylene Chloride	BDL	5	U
	Acetone	25	10	
	Carbon Disulfide	BDL	5	U
	1,1-Dichloroethene	BDL	5	U
	1,1-Dichloroethane	BDL	5	U
	1,2-Dichloroethene (total)	BDL	5	U
	Chloroform	BDL	5	U
	1,2-Dichloroethane	BDL	5	U
	2-Butanone	BDL	10	U .
	1,1,1-Trichloroethane	18	5	
Complete Com	Carbon Tetrachloride	BDL	5	U
	Vinyl Acetate	BDL	10	U
	Bromodichloromethane	BDL	5	U



WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466 Phones: (708) 534-5200 ~7219) 885-7077 (815) 723-753

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: BFW6 MW-9

Project # 1989-06-01-0000 Lab ID: 9004G807-007 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
1,2-Dichloropropane	BDL	5	U	
cis-1,3-Dichloropropene	BDL	5	U	
Trichloroethene	BDL	5	U	
Dibromochloromethane	BDL	5	U	
1,1,2-Trichloroethane	BDL	5 .	U	
Benzene	BDL	5	U	
Trans-1,3-Dichloropropene	BDL	5	U	
Bromoform	BDL	5	U	
4-Methyl-2-pentanone	BDL	10	U	
2-Hexanone	BDL	10	U	
Tetrachloroethene	3	5	ì	
1,1,2,2-Tetrachloroethane	BDL	5	U	
Toluene	BDL	5	U	
Chlorobenzene	BDL	5	U	· · · · · · · · · · · · · · · · · · ·
Ethylbenzene	BDL	. 2	U	
Styrene	BDL	5	U	
Xylene (total)	BDL	5	U	



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-75.

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFWG MW-9

Project # 1989-06-01-0000 Lab ID: 9004G807-007 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Tentatively Identified Compounds	
No Volatile Compounds greater than 10% of the nearest	
internal standard were tentatively identified by mass	
spectral library search. This is exclusive of any target	
 compounds, surrogates or internal standards.	-
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFHT MW-Z

Project # 1989-06-01-0000 Lab ID: 9004G807-008 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

. Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	10	U ·
Bromomethane	BDL	10	U
Vinyl Chloride	BDL	- 10	U
Chloroethane	BDL	10	U
Methylene Chloride	BDL	5	U
Acetone	26	10	
Carbon Disulfide	BDL	5	U
1,1-Dichloroethene	100	5	
1,1-Dichloroethane	86	5	
1,2-Dichloroethene (total)	30	5	
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
2-Butanone	BDL	10	U
1,1,1-Trichloroethane	Ε	5	
Carbon Tetrachloride	BDL	5	U
Vinyl Acetate	BDL	10	U
Bromodichloromethane	BDL	5	U



WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466 Phones: (708) 534-5200 (219) 885-7077 (815) 723-75

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101 Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Thursday April 26th, 1990

RE: RPWT MW-2

Project # 1989-06-01-0000 Lab ID: 9004G807-008 Sample Date: 04/05/90 Date Received: 04/06/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Arsenic, Soluble	0.0040 u	mg/L	0.0040
Cadmium, Soluble	0.0040 u	mg/L	0.0040
Chromium, Soluble	0.020 u	mg/L	0.020
Copper, Soluble	0.020 u	mg/L	0.020
Mercury, Soluble	0.00020 u	mg/L	0.00020
Lead, Soluble	0.0020 u	mg/L	0.0020
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WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-752

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: BENT MW-2

Project # 1989-06-01-0000 Lab ID: 9004G807-008 Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
1,2-Dichloropropane	BDL	5	U	
cis-1,3-Dichloropropene	BDL	5	U	
Trichloroethene	99	5		
Dibromochloromethane	BDL	5	U	
1,1,2-Trichloroethane	6	5		
Benzene	BDL	5	U	
Trans-1,3-Dichloropropene	BDL	5	U	
Bromoform	BDL	5	U	
4-Methy1-2-pentanone	16	10		
2-Hexanone	BDL	10	U	
Tetrachloroethene	E	5		
 1,1,2,2-Tetrachloroethane	BDL	5	U	
Toluene	BDL	5	U	
Chlorobenzene	BDL	5	U	
Ethylbenzene	BDL	5	U	
 Styrene	BDL	5	U	
Xylene (total)	BDL	5	Ü	



WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466 Phones: (708) 534-5200 (219) 885-7077 (815) 723-75:

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: RFWT MW-Z

Project # 1989-06-01-0000 Lab ID: 9004G807-008 DL Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

TOURTIELS DI GOTTO, IISE EISI						
	Volatile Compound		Result	Detection Limit	Flag	
	1,1,1-Trichloroethane		Ε	10		
	Tetrachloroethene		340	10		
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WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466 Phones: (708) 534-5200 (219) 885-7077 (815) 723-750

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: EB2 Equipment Blank

Project # 1989-06-01-0000 Lab ID: 9004G807-009 Sample Date: 04/05/90

Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag	
Chloromethane	8DL	10	U	
Bromomethane	BDL	10	U	
Vinyl Chloride	BDL	10	U	
Chloroethane	BDL	10	U	
Methylene Chloride	BDL	5	U	
Acetone	35	10		
Carbon Disulfide	BDL	5	U	
1,1-Dichloroethene	BDL	5	U	
1,1-Dichloroethane	BDL	5	U	
1,2-Dichloroethene (total)	BDL	5	U	
Chloroform	BDL	5	U	
1,2-Dichloroethane	BDL	5	U	
2-Butanone	BDL	10	U	
1,1,1-Trichloroethane	7	5		
Carbon Tetrachloride	BDL	5	U	
Vinyl Acetate	BDL	10	U	
Bromodichloromethane	BDL	5	U	



WESTON-GULF COAST LABORATORIES, INC. 2417 Bond St., University Park, Illinois 60466

Phones: (708) 534-5200 (219) 885-7077 (815) 723-753:

ANALYTICAL REPORT

To: Tekalloy

Roy F. Weston, Incorporated 100 Corporate North, Suite 101

Bannockburn, IL 60015

Attn: Mr. Carlos Serna

Date: Monday April 23rd, 1990

RE: EB2 Equipment Blank

Project # 1989-06-01-0000 Lab ID: 9004G807-009

Sample Date: 04/05/90 Date Received: 04/06/90

Units: UG/L

Volatile Compound	Result	Detection Limit	Flag
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
4-Methyl-2-pentanone	BDL	10	U
2-Hexanone	BDL	10	U
Tetrachloroethene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	.5	U
Ethylbenzene	BDL	5	U
Styrene	BDL	5	U
Xylene (total)	BDL	5	U
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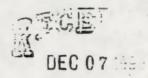
REFERENCE NUMBER Z

VILLAGE OF UNION

6606 MAIN STREET UNION, ILLINOIS 60180 815/923-4153

December 5, 1990

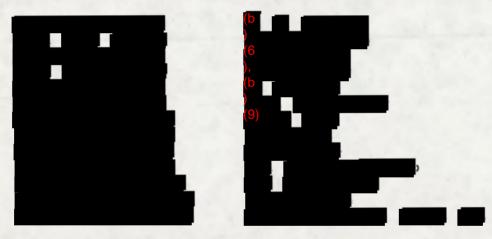
Mr. J. Stanley Black, Ph.D. 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276



GOVT. & COMMUNITY AFFAIRS
JULINOIS EPA

Dear Mr. Black:

Per your request, I have enclosed a map showing the location of residents that have their own well and are not serviced by the Village water system. Below, I have also listed the names and addresses of these people as the map is alittle hard to read.

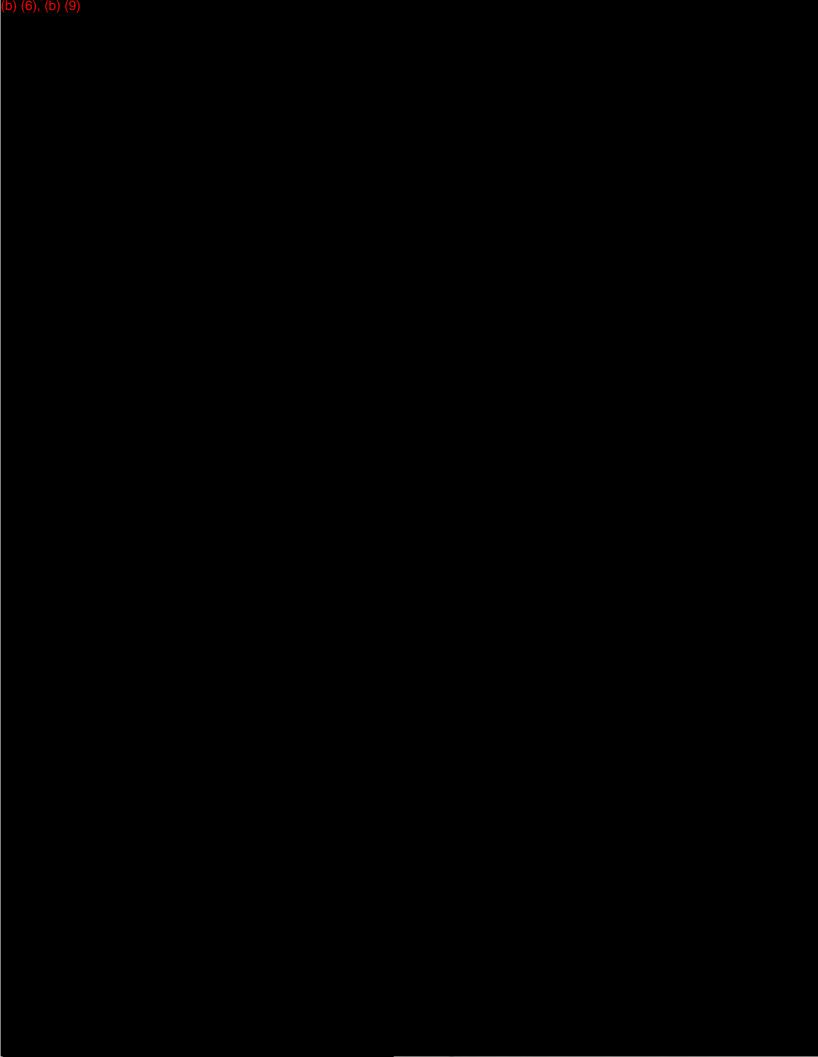


It was mentioned at our board meeting last night, that you planned on coming to our January board meeting- please be advised that this meeting will be held on Wednesday, January 2 at 7:00 because New Year's Day falls on the first Tuesday in January

Please feel free to call me if you have any questions.

Very truly yours,

Phyllis Schauer Village Clerk



PRIVATE WELLS, UNION



REFERENCE NUMBER _8

FACT SHEET

TECHALLOY, INC., UNION, ILLINOIS

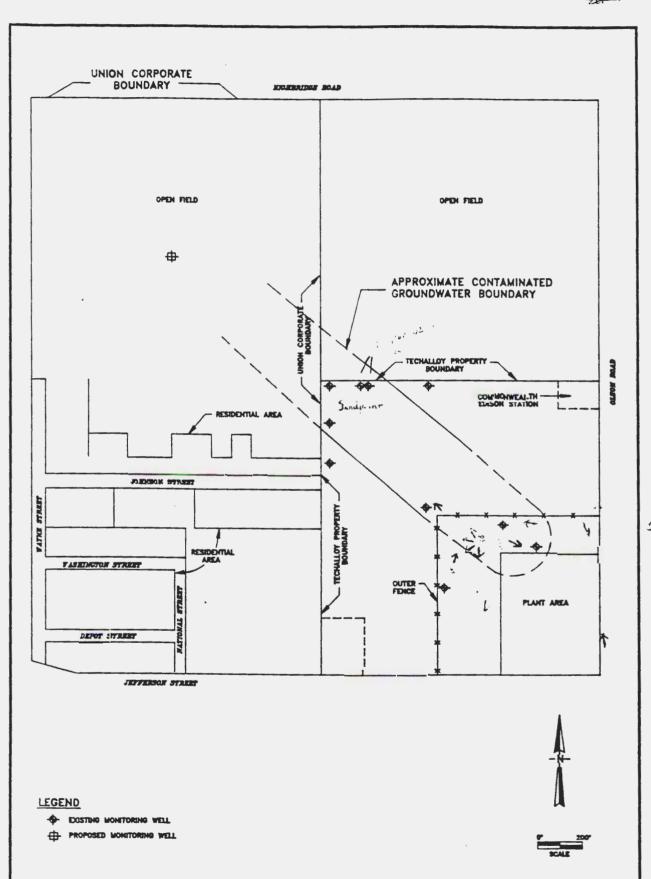
The Techalloy plant is located on 40 acres or the northwest corner of Jefferson and Olsen Roads just east of Union, Illinois. Techalloy employs 118 people in three shifts and processes stainless steel wire for use by industry.

In the course of conducting an environmental assessment in January 1990, Techalloy installed four groundwater monitoring wells and found that the groundwater near the facility buildings was contaminated with low levels of solvents, more specifically, 1.1.1-trichloroethane (TCA), trichloroethene (TCE), and perchloroethene (PCE) and their by-products. These solvents were previously used by Techalloy to degrease wire-

After finding the contaminated groundwater near the buildings, Techalloy installed six additional groundwater monitoring wells in the northwest corner of the facility. The wells were placed in this area because local groundwater flows in the northwesterly direction. Samples from these wells were collected and analyzed. The results indicated that contaminated groundwater is slowly moving away from the Techalloy facility. The detected concentrations of 1,1,1-TCA, TCE and PCE ranged from 0 to 15 parts per million. For six of a total of 10 wells, the concentrations exceed the U.S. Safe Drinking Water Act Maximum Concentration Limits for at least one of these chemicals. Techalloy then promptly informed the Illinois Environmental Protection Agency (IEPA) about this situation and committed to a groundwater recovery and treatment program under the IEPA Voluntary Clean-up Program.

Based on the analytical results, the zone of contaminated water appears to be very narrow and skirting the northeast corner of the Village of Union (see attached map). Residents of Union are not in danger of consuming this water because the Village is served by a municipal water supply. When the original facility assessment was conducted in January 1990, the municipal wells were sampled and subsequent analysis showed that the water supply was not contaminated.

Techalloy is working with the IEPA to quickly investigate and correct the situation that exists today. The next step will be for Techalloy to define the boundaries of the zone of contaminated groundwater (note the proposed well on the attached map) and develop a system to recover and treat the contaminated groundwater. Techalloy has initiated these steps. If you have any questions regarding this contamination of groundwater please call Mr. Richard Piwonka at 923-2131.



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